

APPENDICES

APPENDICES

APPENDIX D

Laboratory Analytical Data Reports and the Electronic Data Deliverable (EDD) Diskette

(included in the original hardcopy report and electronic report)

APPENDIX D
LABORATORY SAMPLE INDEX
Main Facility Area SI/RI/RAW
Former Ingersoll-Rand Facility - Phillipsburg, New Jersey

Sample ID	Lab ID	Date	Depth	Dup	Analysis (Method)	Lab Job #	Nonconformance
R0103.5	641147	6/9/2005	3.5 - 4	N	PCB (8082)	A077	None
R0500.0	641148	6/9/2005	0 - 0.5	N	PCB (8082)	A077	None
R0600.0	641149	6/9/2005	0 - 0.5	N	PCB (8082)	A077	None
R0700.0	641150	6/9/2005	0 - 0.5	N	PCB (8082)	A077	None
R0800.0	641151	6/9/2005	0 - 0.5	N	PCB (8082)	A077	None
F060905	641152	6/9/2005	0 - 0	N	PCB (Aqueous) (608)	A077	None
A0511.5	646511	6/3/2005	11.5 - 12	N	Select Metals (6010B)	A989	None
B0102.0	602734	1/25/2005	2 - 2.5	N	Base-Neutral Organics/PAHs (8270C)	S302	None
		1/25/2005	2 - 2.5	N	Mercury, Solid Waste (7471A)	S302	Hg matrix spike recoveries outside Q.C limits. Q.C. failure from matrix interference.
		1/25/2005	2 - 2.5	N	PCB (8082)	S302	None
		1/25/2005	2 - 2.5	N	Petroleum Hydrocarbons (418.1)	S302	None
		1/25/2005	2 - 2.5	N	Select Metals (6010B)	S302	Sb Matrix spike recovery Outside Q.C.limis,failure from Matrix interference.
		1/25/2005	2 - 2.5	N	Volatile Organics (8260B)	S302	None
		1/25/2005	2 - 2.5	N	Base-Neutral Organics/PAHs (8270C)	S302	None
		1/25/2005	2 - 2.5	N	Mercury, Solid Waste (7471A)	S302	Hg matrix spike recoveries outside Q.C limits. Q.C. failure from matrix interference.
		1/25/2005	2 - 2.5	N	PCB (8082)	S302	None
		1/25/2005	2 - 2.5	N	Petroleum Hydrocarbons (418.1)	S302	None
B0902.0	602735	1/25/2005	2 - 2.5	N	Select Metals (6010B)	S302	Sb Matrix spike recovery Outside Q.C.limis,failure from Matrix interference.
		1/25/2005	2 - 2.5	N	Volatile Organics (8260B)	S302	None
		1/25/2005	2 - 2.5	N	Base-Neutral Organics/PAHs (8270C)	S302	None
		1/25/2005	0.5 - 1	N	Mercury, Solid Waste (7471A)	S302	Hg matrix spike recoveries outside Q.C limits. Q.C. failure from matrix interference.
		1/25/2005	0.5 - 1	N	PCB (8082)	S302	None
B0700.5	602736	1/25/2005	0.5 - 1	N	Petroleum Hydrocarbons (418.1)	S302	None

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Main Facility Area SI/RI/RAW
Former Ingersoll-Rand Facility - Phillipsburg, New Jersey

Sample ID	Lab ID	Date	Depth	Dup	Analysis (Method)	Lab Job #	Nonconformance
B0700.5	602736	1/25/2005	0.5 - 1	N	Select Metals (6010B)	S302	Sb Matrix spike recovery Outside Q.C.limis,failure from Matrix interference.
		1/25/2005	0.5 - 1	N	Volatile Organics (8260B)	S302	None
B1502.0	602737	1/25/2005	2 - 2.5	N	Base-Neutral Organics/PAHs (8270C)	S302	None
		1/25/2005	2 - 2.5	N	Mercury, Solid Waste (7471A)	S302	Hg matrix spike recoveries outside Q.C limits. Q.C. failure from matrix interference.
		1/25/2005	2 - 2.5	N	PCB (8082)	S302	None
		1/25/2005	2 - 2.5	N	Petroleum Hydrocarbons (418.1)	S302	None
		1/25/2005	2 - 2.5	N	Select Metals (6010B)	S302	Sb Matrix spike recovery Outside Q.C.limis,failure from Matrix interference.
		1/25/2005	2 - 2.5	N	Volatile Organics (8260B)	S302	None
B1502.D	602738	1/25/2005	2 - 2.5	Y	Base-Neutral Organics/PAHs (8270C)	S302	None
		1/25/2005	2 - 2.5	Y	Mercury, Solid Waste (7471A)	S302	Hg matrix spike recoveries outside Q.C limits. Q.C. failure from matrix interference.
		1/25/2005	2 - 2.5	Y	PCB (8082)	S302	None
		1/25/2005	2 - 2.5	Y	Petroleum Hydrocarbons (418.1)	S302	None
		1/25/2005	2 - 2.5	Y	Select Metals (6010B)	S302	Sb Matrix spike recovery Outside Q.C.limis,failure from Matrix interference.
		1/25/2005	2 - 2.5	Y	Volatile Organics (8260B)	S302	None
F012505	602739	1/25/2005	0 - 0	N	Base-Neutral Organics/PAH (Aqueous) (625)	S302	None
		1/25/2005	0 - 0	N	Mercury, Liquid Waste (7470A)	S302	Hg matrix spike recoveries outside Q.C limits. Q.C. failure from matrix interference.
		1/25/2005	0 - 0	N	PCB (Aqueous) (608)	S302	Matrix spike recovery of Aroclor-1016 &Aroclor-1260 are biased high.
		1/25/2005	0 - 0	N	Petroleum Hydrocarbons (418.1)	S302	None
		1/25/2005	0 - 0	N	Select Metals (6010B)	S302	Sb Matrix spike recovery Outside Q.C.limis,failure from Matrix interference.
		1/25/2005	0 - 0	N	Volatile Organics (Aqueous) (624)	S302	None
B0500.5	602740	1/25/2005	0.5 - 1	N	Base-Neutral Organics/PAHs (8270C)	S302	None
		1/25/2005	0.5 - 1	N	Mercury, Solid Waste (7471A)	S302	Hg matrix spike recoveries outside Q.C limits. Q.C. failure from matrix interference.

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Sample ID	Lab ID	Date	Depth	Dup	Analysis (Method)	Lab Job #	Nonconformance
B0500.5	602740	1/25/2005	0.5 - 1	N	PCB (8082)	S302	None
		1/25/2005	0.5 - 1	N	Petroleum Hydrocarbons (418.1)	S302	None
		1/25/2005	0.5 - 1	N	Select Metals (6010B)	S302	Sb Matrix spike recovery Outside Q.C.limis,failure from Matrix interference.
		1/25/2005	0.5 - 1	N	Volatile Organics (8260B)	S302	None
B1402.0	602928	1/26/2005	2 - 2.5	N	Base-Neutral Organics/PAHs (8270C)	S359	MS % recovery of Phenol is biased low
		1/26/2005	2 - 2.5	N	Mercury, Solid Waste (7471A)	S359	None
		1/26/2005	2 - 2.5	N	PCB (8082)	S359	None
		1/26/2005	2 - 2.5	N	Petroleum Hydrocarbons (418.1)	S359	None
		1/26/2005	2 - 2.5	N	Select Metals (6010B)	S359	Sb and Zn MS recovery is outside Q.C limits Q.C failure attributed to matrix interference (LCS/Blank spike recoveries are within Q.C limits)
B1602.0	602929	1/26/2005	2 - 2.5	N	Volatile Organics (8260B)	S359	None
		1/26/2005	2 - 2.5	N	Base-Neutral Organics/PAHs (8270C)	S359	MS % recovery of Phenol is biased low
		1/26/2005	2 - 2.5	N	Mercury, Solid Waste (7471A)	S359	None
		1/26/2005	2 - 2.5	N	PCB (8082)	S359	None
		1/26/2005	2 - 2.5	N	Petroleum Hydrocarbons (418.1)	S359	None
B1200.5	602930	1/26/2005	2 - 2.5	N	Select Metals (6010B)	S359	Sb and Zn MS recovery is outside Q.C limits Q.C failure attributed to matrix interference (LCS/Blank spike recoveries are within Q.C limits)
		1/26/2005	2 - 2.5	N	Volatile Organics (8260B)	S359	None
		1/26/2005	0.5 - 1	N	Base-Neutral Organics/PAHs (8270C)	S359	MS % recovery of Phenol is biased low
		1/26/2005	0.5 - 1	N	Mercury, Solid Waste (7471A)	S359	None
		1/26/2005	0.5 - 1	N	PCB (8082)	S359	None
B1000.5	602931	1/26/2005	0.5 - 1	N	Petroleum Hydrocarbons (418.1)	S359	None
		1/26/2005	0.5 - 1	N	Select Metals (6010B)	S359	Sb and Zn MS recovery is outside Q.C limits Q.C failure attributed to matrix interference (LCS/Blank spike recoveries are within Q.C limits)
		1/26/2005	0.5 - 1	N	Volatile Organics (8260B)	S359	None
		1/26/2005	0.5 - 1	N	Base-Neutral Organics/PAHs (8270C)	S359	MS % recovery of Phenol is biased low
		1/26/2005	0.5 - 1	N	Mercury, Solid Waste (7471A)	S359	None

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B1000.5	602931	1/26/2005	0.5 - 1	N	PCB (8082)	S359	None
		1/26/2005	0.5 - 1	N	Petroleum Hydrocarbons (418.1)	S359	None
		1/26/2005	0.5 - 1	N	Select Metals (6010B)	S359	Sb and Zn MS recovery is outside Q.C limits Q.C failure attributed to matrix interference (LCS/Blank spike recoveries are within Q.C limits)
		1/26/2005	0.5 - 1	N	Volatile Organics (8260B)	S359	None
B0800.5	602932	1/26/2005	0.5 - 1	N	Base-Neutral Organics/PAHs (8270C)	S359	MS % recovery of Phenol is biased low
		1/26/2005	0.5 - 1	N	Mercury, Solid Waste (7471A)	S359	None
		1/26/2005	0.5 - 1	N	PCB (8082)	S359	None
		1/26/2005	0.5 - 1	N	Petroleum Hydrocarbons (418.1)	S359	None
		1/26/2005	0.5 - 1	N	Select Metals (6010B)	S359	Sb and Zn Matrix Spike recovery is outside Q.C limits Q.C failure attributed to matrix interference (LCS/Blank spike recoveries are within Q.C limits)
B0602.0	602933	1/26/2005	0.5 - 1	N	Volatile Organics (8260B)	S359	None
		1/26/2005	2 - 2.5	N	Base-Neutral Organics/PAHs (8270C)	S359	MS % recovery of Phenol is biased low
		1/26/2005	2 - 2.5	N	Mercury, Solid Waste (7471A)	S359	None
		1/26/2005	2 - 2.5	N	PCB (8082)	S359	None
		1/26/2005	2 - 2.5	N	Petroleum Hydrocarbons (418.1)	S359	None
		1/26/2005	2 - 2.5	N	Select Metals (6010B)	S359	Sb and Zn MS recovery is outside Q.C limits Q.C failure attributed to matrix interference (LCS/Blank spike recoveries are within Q.C limits)
B2104.0	602934	1/26/2005	2 - 2.5	N	Volatile Organics (8260B)	S359	None
		1/26/2005	4 - 4.5	N	Base-Neutral Organics/PAHs (8270C)	S359	MS % recovery of Phenol is biased low
		1/26/2005	4 - 4.5	N	Mercury, Solid Waste (7471A)	S359	None
		1/26/2005	4 - 4.5	N	PCB (8082)	S359	None
		1/26/2005	4 - 4.5	N	Petroleum Hydrocarbons (418.1)	S359	None
		1/26/2005	4 - 4.5	N	Select Metals (6010B)	S359	Sb and Zn MS recovery is outside Q.C limits Q.C failure attributed to matrix interference (LCS/Blank spike recoveries are within Q.C limits)
B2104.D	602935	1/26/2005	4 - 4.5	N	Volatile Organics (8260B)	S359	None
		1/26/2005	4 - 4.5	Y	Base-Neutral Organics/PAHs (8270C)	S359	MS % recovery of Phenol is biased low

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Sample ID	Lab ID	Date	Depth	Dup	Analysis (Method)	Lab Job #	Nonconformance
B2104.D	602935	1/26/2005	4 - 4.5	Y	Mercury, Solid Waste (7471A)	S359	None
		1/26/2005	4 - 4.5	Y	PCB (8082)	S359	None
		1/26/2005	4 - 4.5	Y	Petroleum Hydrocarbons (418.1)	S359	None
		1/26/2005	4 - 4.5	Y	Select Metals (6010B)	S359	Sb and Zn MS recovery is outside Q.C limits Q.C failure attributed to matrix interference (LCS/Blank spike recoveries are within Q.C limits)
		1/26/2005	4 - 4.5	Y	Volatile Organics (8260B)	S359	None
F012605	602936	1/26/2005	0 - 0	N	Base-Neutral Organics/PAH (Aqueous) (625)	S359	None
		1/26/2005	0 - 0	N	Mercury, Liquid Waste (7470A)	S359	None
		1/26/2005	0 - 0	N	PCB (Aqueous) (608)	S359	MS % recovery of Aroclor-1016 & Aroclor-1260 biased high.(blank spike recovery is within Q.C. Limits)
		1/26/2005	0 - 0	N	Petroleum Hydrocarbons (418.1)	S359	None
		1/26/2005	0 - 0	N	Select Metals (6010B)	S359	Sb and Zn MS recovery is outside Q.C limits Q.C failure attributed to matrix interference (LCS/Blank spike recoveries are within Q.C limits)
		1/26/2005	0 - 0	N	Volatile Organics (Aqueous) (624)	S359	None
B1308.5	603131	1/27/2005	8.5 - 9	N	Base-Neutral Organics/PAHs (8270C)	S411	None
		1/27/2005	8.5 - 9	N	Mercury, Solid Waste (7471A)	S411	None
		1/27/2005	8.5 - 9	N	PCB (8082)	S411	None
		1/27/2005	8.5 - 9	N	Petroleum Hydrocarbons (418.1)	S411	MS/MSD % recovery of TPHC is outside Q.C. limits due to matrix interference (LCS recovery is within Q.C. limits)
		1/27/2005	8.5 - 9	N	Select Metals (6010B)	S411	Sb MS recovery outside Q.C.limits,failure from matrix interference.
		1/27/2005	8.5 - 9	N	Volatile Organics (8260B)	S411	None
B1702.0	603132	1/27/2005	2 - 2.5	N	Base-Neutral Organics/PAHs (8270C)	S411	None
		1/27/2005	2 - 2.5	N	Mercury, Solid Waste (7471A)	S411	None
		1/27/2005	2 - 2.5	N	PCB (8082)	S411	None
		1/27/2005	2 - 2.5	N	Petroleum Hydrocarbons (418.1)	S411	MS/MSD % recovery of TPHC is outside Q.C. limits due to matrix interference (LCS recovery is within Q.C. limits)
		1/27/2005	2 - 2.5	N	Select Metals (6010B)	S411	Sb MS recovery outside Q.C.limits,failure from matrix interference.
		1/27/2005	2 - 2.5	N	Volatile Organics (8260B)	S411	None
B0201.0	603133	1/27/2005	1 - 1.5	N	Base-Neutral Organics/PAHs (8270C)	S411	None

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Sample ID	Lab ID	Date	Depth	Dup	Analysis (Method)	Lab Job #	Nonconformance
B0201.0	603133	1/27/2005	1 - 1.5	N	Mercury, Solid Waste (7471A)	S411	None
		1/27/2005	1 - 1.5	N	PCB (8082)	S411	None
		1/27/2005	1 - 1.5	N	Petroleum Hydrocarbons (418.1)	S411	MS/MSD % recovery of TPHC is outside Q.C. limits due to matrix interference (LCS recovery is within Q.C. limits)
		1/27/2005	1 - 1.5	N	Select Metals (6010B)	S411	Sb MS recovery outside Q.C.limits,failure from matrix interference.
		1/27/2005	1 - 1.5	N	Volatile Organics (8260B)	S411	None
F012705	603134	1/27/2005	0 - 0	N	Base-Neutral Organics/PAH (Aqueous) (625)	S411	None
		1/27/2005	0 - 0	N	Mercury, Liquid Waste (7470A)	S411	None
		1/27/2005	0 - 0	N	PCB (Aqueous) (608)	S411	MS % recovery of Aroclor-1016 & Aroclor-1260 biased high.(blank spike recovery is within Q.C. Limits)
		1/27/2005	0 - 0	N	Petroleum Hydrocarbons (418.1)	S411	None
		1/27/2005	0 - 0	N	Select Metals (6010B)	S411	Sb MS recovery outside Q.C.limits,failure from matrix interference.
D0114.0	604243	1/27/2005	0 - 0	N	Volatile Organics (Aqueous) (624)	S411	None
		2/2/2005	14 - 14.5	N	Mercury, Solid Waste (7471A)	S672	none
		2/2/2005	14 - 14.5	N	Select Metals (6010B)	S672	As sample duplicate RPD(s) outside Q.C.limits.Poor precision from non homogeneous sample (LCS/LCSdup RPD is within Q.C.limits). Sb MSR outside Q.C.limits,failure from matrix interference (LCS/Blank spike recoveries are within Q.C.limits).
B0301.0	604244	2/2/2005	1 - 1.5	N	Base-Neutral Organics/PAHs (8270C)	S673	MS/MSD % recovery of Pentachlorophenol is biased low.MS/MSD % recovery of Pyrene is outside Q.C. limits (sample amount to high for spike level)
		2/2/2005	1 - 1.5	N	Mercury, Solid Waste (7471A)	S673	None
		2/2/2005	1 - 1.5	N	PCB (8082)	S673	None
		2/2/2005	1 - 1.5	N	Petroleum Hydrocarbons (418.1)	S673	None
		2/2/2005	1 - 1.5	N	Select Metals (6010B)	S673	Sb Matrix spike recovery Outside Q.C.limis,failure from Matrix interference.
B0401.0	604245	2/2/2005	1 - 1.5	N	Volatile Organics (8260B)	S673	None
		2/2/2005	1 - 1.5	N	Base-Neutral Organics/PAHs (8270C)	S673	MS/MSD % recovery of Pentachlorophenol is biased low.MS/MSD % recovery of Pyrene is outside Q.C. limits (sample amount to high for spike level)

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Sample ID	Lab ID	Date	Depth	Dup	Analysis (Method)	Lab Job #	Nonconformance
B0401.0	604245	2/2/2005	1 - 1.5	N	Mercury, Solid Waste (7471A)	S673	None
		2/2/2005	1 - 1.5	N	PCB (8082)	S673	None
		2/2/2005	1 - 1.5	N	Petroleum Hydrocarbons (418.1)	S673	None
		2/2/2005	1 - 1.5	N	Select Metals (6010B)	S673	Sb MS recovery outside Q.C.limits,failure from matrix interference.
		2/2/2005	1 - 1.5	N	Volatile Organics (8260B)	S673	None
B1101.0	604246	2/2/2005	1 - 1.5	N	Base-Neutral Organics/PAHs (8270C)	S673	MS/MSD % recovery of Pentachlorophenol is biased low.MS/MSD % recovery of Pyrene is outside Q.C. limits (sample amount to high for spike level)
		2/2/2005	1 - 1.5	N	Mercury, Solid Waste (7471A)	S673	None
		2/2/2005	1 - 1.5	N	PCB (8082)	S673	None
		2/2/2005	1 - 1.5	N	Petroleum Hydrocarbons (418.1)	S673	None
		2/2/2005	1 - 1.5	N	Select Metals (6010B)	S673	Sb MS recovery outside Q.C.limits,failure from matrix interference.
B1800.5	604247	2/2/2005	1 - 1.5	N	Volatile Organics (8260B)	S673	None
		2/2/2005	0.5 - 1	N	Base-Neutral Organics/PAHs (8270C)	S673	MS/MSD % recovery of Pentachlorophenol is biased low.MS/MSD % recovery of Pyrene is outside Q.C. limits (sample amount to high for spike level)
		2/2/2005	0.5 - 1	N	Mercury, Solid Waste (7471A)	S673	None
		2/2/2005	0.5 - 1	N	PCB (8082)	S673	None
		2/2/2005	0.5 - 1	N	Petroleum Hydrocarbons (418.1)	S673	None
B2001.0	604248	2/2/2005	0.5 - 1	N	Select Metals (6010B)	S673	Sb MS recovery outside Q.C.limits,failure from matrix interference.
		2/2/2005	0.5 - 1	N	Volatile Organics (8260B)	S673	None
		2/2/2005	1 - 1.5	N	Base-Neutral Organics/PAHs (8270C)	S673	MS/MSD % recovery of Pentachlorophenol is biased low.MS/MSD % recovery of Pyrene is outside Q.C. limits (sample amount to high for spike level)
		2/2/2005	1 - 1.5	N	Mercury, Solid Waste (7471A)	S673	None
		2/2/2005	1 - 1.5	N	PCB (8082)	S673	None
		2/2/2005	1 - 1.5	N	Petroleum Hydrocarbons (418.1)	S673	None
		2/2/2005	1 - 1.5	N	Select Metals (6010B)	S673	Sb MS recovery outside Q.C.limits,failure from matrix interference.
		2/2/2005	1 - 1.5	N	Volatile Organics (8260B)	S673	None

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Sample ID	Lab ID	Date	Depth	Dup	Analysis (Method)	Lab Job #	Nonconformance
D0103.5	604249	2/2/2005	3.5 - 4	N	Base-Neutral Organics/PAHs (8270C)	S673	MS/MSD % recovery of Pentachlorophenol is biased low.MS/MSD % recovery of Pyrene is outside Q.C. limits (sample amount to high for spike level)
		2/2/2005	3.5 - 4	N	Cyanide Total (9012A)	S673	None
		2/2/2005	3.5 - 4	N	Mercury, Solid Waste (7471A)	S673	None
		2/2/2005	3.5 - 4	N	PCB (8082)	S673	None
		2/2/2005	3.5 - 4	N	Petroleum Hydrocarbons (418.1)	S673	None
		2/2/2005	3.5 - 4	N	Select Metals (6010B)	S673	Sb MS recovery outside Q.C.limits,failure from matrix interference.
		2/2/2005	3.5 - 4	N	Total Phenols (9066)	S673	None
		2/2/2005	3.5 - 4	N	Volatile Organics (8260B)	S673	None
F020205	604250	2/2/2005	0 - 0	N	Base-Neutral Organics/PAH (Aqueous) (625)	S673	MS % recovery of Acenaphthylene biased low.
		2/2/2005	0 - 0	N	Mercury, Liquid Waste (7470A)	S673	None
		2/2/2005	0 - 0	N	PCB (Aqueous) (608)	S673	None
		2/2/2005	0 - 0	N	Petroleum Hydrocarbons (418.1)	S673	None
		2/2/2005	0 - 0	N	Select Metals (6010B)	S673	Sb MS recovery outside Q.C.limits,failure from matrix interference.
		2/2/2005	0 - 0	N	Volatile Organics (Aqueous) (624)	S673	None
F042505	627408	4/25/2005	0 - 0	N	Base-Neutral Organics/PAH (Aqueous) (625)	X288	None
		4/25/2005	0 - 0	N	Mercury, Liquid Waste (7470A)	X288	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/25/2005	0 - 0	N	PCB (Aqueous) (608)	X288	None
		4/25/2005	0 - 0	N	Petroleum Hydrocarbons (418.1)	X288	None
		4/25/2005	0 - 0	N	Select Metals (6010B)	X288	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/25/2005	0 - 0	N	Volatile Organics (Aqueous) (624)	X288	None
X0102.0	627409	4/25/2005	2 - 2.5	N	Base-Neutral Organics/PAHs (8270C)	X289	MS/MSD RPD of Pentachlorophenol is biased high.
		4/25/2005	2 - 2.5	N	Mercury, Solid Waste (7471A)	X289	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/25/2005	2 - 2.5	N	PCB (8082)	X289	None

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X0102.0	627409	4/25/2005	2 - 2.5	N	Petroleum Hydrocarbons (418.1)	X289	None
		4/25/2005	2 - 2.5	N	Select Metals (6010B)	X289	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/25/2005	2 - 2.5	N	Volatile Organics (8260B)	X289	None
X0109.5	627410	4/25/2005	9.5 - 10	N	Base-Neutral Organics/PAHs (8270C)	X289	MS/MSD RPD of Pentachlorophenol is biased high.
		4/25/2005	9.5 - 10	N	Mercury, Solid Waste (7471A)	X289	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/25/2005	9.5 - 10	N	PCB (8082)	X289	None
		4/25/2005	9.5 - 10	N	Petroleum Hydrocarbons (418.1)	X289	None
		4/25/2005	9.5 - 10	N	Select Metals (6010B)	X289	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
X0202.0	627411	4/25/2005	9.5 - 10	N	Volatile Organics (8260B)	X289	None
		4/25/2005	2 - 2.5	N	Base-Neutral Organics/PAHs (8270C)	X289	MS/MSD RPD of Pentachlorophenol is biased high.
		4/25/2005	2 - 2.5	N	Mercury, Solid Waste (7471A)	X289	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/25/2005	2 - 2.5	N	PCB (8082)	X289	None
		4/25/2005	2 - 2.5	N	Petroleum Hydrocarbons (418.1)	X289	None
X0208.0	627412	4/25/2005	2 - 2.5	N	Select Metals (6010B)	X289	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/25/2005	2 - 2.5	N	Volatile Organics (8260B)	X289	None
		4/25/2005	8 - 8.5	N	Base-Neutral Organics/PAHs (8270C)	X289	MS/MSD RPD of Pentachlorophenol is biased high.
		4/25/2005	8 - 8.5	N	Mercury, Solid Waste (7471A)	X289	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/25/2005	8 - 8.5	N	PCB (8082)	X289	None
X0302.0	627413	4/25/2005	8 - 8.5	N	Petroleum Hydrocarbons (418.1)	X289	None
		4/25/2005	8 - 8.5	N	Select Metals (6010B)	X289	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/25/2005	8 - 8.5	N	Volatile Organics (8260B)	X289	None
		4/25/2005	2 - 2.5	N	Base-Neutral Organics/PAHs (8270C)	X289	MS/MSD RPD of Pentachlorophenol is biased high.

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X0302.0	627413	4/25/2005	2 - 2.5	N	Mercury, Solid Waste (7471A)	X289	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/25/2005	2 - 2.5	N	PCB (8082)	X289	None
		4/25/2005	2 - 2.5	N	Petroleum Hydrocarbons (418.1)	X289	None
		4/25/2005	2 - 2.5	N	Select Metals (6010B)	X289	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/25/2005	2 - 2.5	N	Volatile Organics (8260B)	X289	None
X0304.0	627414	4/25/2005	4 - 4.5	N	Base-Neutral Organics/PAHs (8270C)	X289	MS/MSD RPD of Pentachlorophenol is biased high.
		4/25/2005	4 - 4.5	N	Mercury, Solid Waste (7471A)	X289	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/25/2005	4 - 4.5	N	PCB (8082)	X289	None
		4/25/2005	4 - 4.5	N	Petroleum Hydrocarbons (418.1)	X289	None
		4/25/2005	4 - 4.5	N	Select Metals (6010B)	X289	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
X0402.5	627415	4/25/2005	4 - 4.5	N	Volatile Organics (8260B)	X289	None
		4/25/2005	2.5 - 3	N	Base-Neutral Organics/PAHs (8270C)	X289	MS/MSD RPD of Pentachlorophenol is biased high.
		4/25/2005	2.5 - 3	N	Mercury, Solid Waste (7471A)	X289	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/25/2005	2.5 - 3	N	PCB (8082)	X289	None
		4/25/2005	2.5 - 3	N	Petroleum Hydrocarbons (418.1)	X289	None
X0407.5	627416	4/25/2005	2.5 - 3	N	Select Metals (6010B)	X289	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/25/2005	2.5 - 3	N	Volatile Organics (8260B)	X289	None
		4/25/2005	7.5 - 8	N	Base-Neutral Organics/PAHs (8270C)	X289	MS/MSD RPD of Pentachlorophenol is biased high.
		4/25/2005	7.5 - 8	N	Mercury, Solid Waste (7471A)	X289	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/25/2005	7.5 - 8	N	PCB (8082)	X289	None
		4/25/2005	7.5 - 8	N	Petroleum Hydrocarbons (418.1)	X289	None
		4/25/2005	7.5 - 8	N	Select Metals (6010B)	X289	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)

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X0407.5	627416	4/25/2005	7.5 - 8	N	Volatile Organics (8260B)	X289	None
X0502.0	627417	4/25/2005	2 - 2.5	N	Base-Neutral Organics/PAHs (8270C)	X289	MS/MSD RPD of Pentachlorophenol is biased high.
		4/25/2005	2 - 2.5	N	Mercury, Solid Waste (7471A)	X289	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/25/2005	2 - 2.5	N	PCB (8082)	X289	None
		4/25/2005	2 - 2.5	N	Petroleum Hydrocarbons (418.1)	X289	None
		4/25/2005	2 - 2.5	N	Select Metals (6010B)	X289	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/25/2005	2 - 2.5	N	Volatile Organics (8260B)	X289	None
X0512.0	627418	4/25/2005	12 - 12.5	N	Base-Neutral Organics/PAHs (8270C)	X289	MS/MSD RPD of Pentachlorophenol is biased high.
		4/25/2005	12 - 12.5	N	Mercury, Solid Waste (7471A)	X289	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/25/2005	12 - 12.5	N	PCB (8082)	X289	None
		4/25/2005	12 - 12.5	N	Petroleum Hydrocarbons (418.1)	X289	None
		4/25/2005	12 - 12.5	N	Select Metals (6010B)	X289	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/25/2005	12 - 12.5	N	Volatile Organics (8260B)	X289	None
X0602.5	627419	4/25/2005	2.5 - 3	N	Base-Neutral Organics/PAHs (8270C)	X289	MS/MSD RPD of Pentachlorophenol is biased high.
		4/25/2005	2.5 - 3	N	Mercury, Solid Waste (7471A)	X289	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/25/2005	2.5 - 3	N	PCB (8082)	X289	None
		4/25/2005	2.5 - 3	N	Petroleum Hydrocarbons (418.1)	X289	None
		4/25/2005	2.5 - 3	N	Select Metals (6010B)	X289	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/25/2005	2.5 - 3	N	Volatile Organics (8260B)	X289	None
X0611.5	627420	4/25/2005	11.5 - 12	N	Base-Neutral Organics/PAHs (8270C)	X289	MS/MSD RPD of Pentachlorophenol is biased high.
		4/25/2005	11.5 - 12	N	Mercury, Solid Waste (7471A)	X289	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/25/2005	11.5 - 12	N	PCB (8082)	X289	None

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X0611.5	627420	4/25/2005	11.5 - 12	N	Petroleum Hydrocarbons (418.1)	X289	None
		4/25/2005	11.5 - 12	N	Select Metals (6010B)	X289	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/25/2005	11.5 - 12	N	Volatile Organics (8260B)	X289	None
X0702.0	627421	4/25/2005	2 - 2.5	N	Base-Neutral Organics/PAHs (8270C)	X289	MS/MSD RPD of Pentachlorophenol is biased high.
		4/25/2005	2 - 2.5	N	Mercury, Solid Waste (7471A)	X289	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/25/2005	2 - 2.5	N	PCB (8082)	X289	None
		4/25/2005	2 - 2.5	N	Petroleum Hydrocarbons (418.1)	X289	None
		4/25/2005	2 - 2.5	N	Select Metals (6010B)	X289	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
X0707.5	627422	4/25/2005	2 - 2.5	N	Volatile Organics (8260B)	X289	None
		4/25/2005	7.5 - 8	N	Base-Neutral Organics/PAHs (8270C)	X289	MS/MSD RPD of Pentachlorophenol is biased high.
		4/25/2005	7.5 - 8	N	Mercury, Solid Waste (7471A)	X289	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/25/2005	7.5 - 8	N	PCB (8082)	X289	None
		4/25/2005	7.5 - 8	N	Petroleum Hydrocarbons (418.1)	X289	None
U0102.5	627423	4/25/2005	7.5 - 8	N	Select Metals (6010B)	X289	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/25/2005	7.5 - 8	N	Volatile Organics (8260B)	X289	None
		4/25/2005	2.5 - 3	N	Base-Neutral Organics/PAHs (8270C)	X289	MS/MSD RPD of Pentachlorophenol is biased high.
		4/25/2005	2.5 - 3	N	Mercury, Solid Waste (7471A)	X289	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/25/2005	2.5 - 3	N	PCB (8082)	X289	None
U0119.5	627424	4/25/2005	2.5 - 3	N	Petroleum Hydrocarbons (418.1)	X289	None
		4/25/2005	2.5 - 3	N	Select Metals (6010B)	X289	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/25/2005	2.5 - 3	N	Volatile Organics (8260B)	X289	None
		4/25/2005	19.5 - 20	N	Base-Neutral Organics/PAHs (8270C)	X289	MS/MSD RPD of Pentachlorophenol is biased high.

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U0119.5	627424	4/25/2005	19.5 - 20	N	Mercury, Solid Waste (7471A)	X289	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/25/2005	19.5 - 20	N	PCB (8082)	X289	None
		4/25/2005	19.5 - 20	N	Petroleum Hydrocarbons (418.1)	X289	None
		4/25/2005	19.5 - 20	N	Select Metals (6010B)	X289	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/25/2005	19.5 - 20	N	Volatile Organics (8260B)	X289	None
U0515.5	627668	4/26/2005	15.5 - 16	N	Base-Neutral Organics/PAHs (8270C)	X352	
		4/26/2005	15.5 - 16	N	Mercury, Solid Waste (7471A)	X352	Sb MS recovery is outside Q.C. limits. Q.C. failure attributed to matrix interference (LCS/Blank spike recoveries within Q.C. limits).
		4/26/2005	15.5 - 16	N	PCB (8082)	X352	
		4/26/2005	15.5 - 16	N	Petroleum Hydrocarbons (418.1)	X352	
		4/26/2005	15.5 - 16	N	Select Metals (6010B)	X352	Sb MS recovery is outside Q.C. limits. Q.C. failure attributed to matrix interference (LCS/Blank spike recoveries within Q.C. limits).
		4/26/2005	15.5 - 16	N	Volatile Organics (8260B)	X352	
U0611.5	627669	4/26/2005	11.5 - 12	N	Volatile Organics (8260B)	X352	
U0203.0	627670	4/26/2005	3 - 3.5	N	Base-Neutral Organics/PAHs (8270C)	X353	MS/MSD%recovery of 1,2,4-trichlorobenzene and MSD%recovery of 1,4-dichlorobenzene are biased low
		4/26/2005	3 - 3.5	N	Mercury, Solid Waste (7471A)	X353	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/26/2005	3 - 3.5	N	PCB (8082)	X353	None
		4/26/2005	3 - 3.5	N	Petroleum Hydrocarbons (418.1)	X353	None
		4/26/2005	3 - 3.5	N	Select Metals (6010B)	X353	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/26/2005	3 - 3.5	N	Volatile Organics (8260B)	X353	None
U0210.0	627671	4/26/2005	10 - 10.5	N	Base-Neutral Organics/PAHs (8270C)	X353	MS/MSD%recovery of 1,2,4-trichlorobenzene and MSD%recovery of 1,4-dichlorobenzene are biased low
		4/26/2005	10 - 10.5	N	Mercury, Solid Waste (7471A)	X353	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/26/2005	10 - 10.5	N	PCB (8082)	X353	None

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U0210.0	627671	4/26/2005	10 - 10.5	N	Petroleum Hydrocarbons (418.1)	X353	None
		4/26/2005	10 - 10.5	N	Select Metals (6010B)	X353	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/26/2005	10 - 10.5	N	Volatile Organics (8260B)	X353	None
U0404.5	627672	4/26/2005	4.5 - 5	N	Base-Neutral Organics/PAHs (8270C)	X353	MS/MSD%recovery of 1,2,4-trichlorobenzene and MSD%recovery of 1,4-dichlorobenzene are biased low
		4/26/2005	4.5 - 5	N	Mercury, Solid Waste (7471A)	X353	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/26/2005	4.5 - 5	N	PCB (8082)	X353	None
		4/26/2005	4.5 - 5	N	Petroleum Hydrocarbons (418.1)	X353	None
		4/26/2005	4.5 - 5	N	Select Metals (6010B)	X353	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/26/2005	4.5 - 5	N	Volatile Organics (8260B)	X353	None
U0414.5	627673	4/26/2005	14.5 - 15	N	Base-Neutral Organics/PAHs (8270C)	X353	MS/MSD%recovery of 1,2,4-trichlorobenzene and MSD%recovery of 1,4-dichlorobenzene are biased low
		4/26/2005	14.5 - 15	N	Mercury, Solid Waste (7471A)	X353	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/26/2005	14.5 - 15	N	PCB (8082)	X353	None
		4/26/2005	14.5 - 15	N	Petroleum Hydrocarbons (418.1)	X353	None
		4/26/2005	14.5 - 15	N	Select Metals (6010B)	X353	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/26/2005	14.5 - 15	N	Volatile Organics (8260B)	X353	None
U0509.0	627674	4/26/2005	9 - 9.5	N	Base-Neutral Organics/PAHs (8270C)	X353	MS/MSD%recovery of 1,2,4-trichlorobenzene and MSD%recovery of 1,4-dichlorobenzene are biased low
		4/26/2005	9 - 9.5	N	Mercury, Solid Waste (7471A)	X353	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/26/2005	9 - 9.5	N	PCB (8082)	X353	None
		4/26/2005	9 - 9.5	N	Petroleum Hydrocarbons (418.1)	X353	None
		4/26/2005	9 - 9.5	N	Select Metals (6010B)	X353	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/26/2005	9 - 9.5	N	Volatile Organics (8260B)	X353	None

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U0509.D	627675	4/26/2005	9 - 9.5	Y	Base-Neutral Organics/PAHs (8270C)	X353	MS/MSD%recovery of 1,2,4-trichlorobenzene and MSD%recovery of 1,4-dichlorobenzene are biased low
		4/26/2005	9 - 9.5	Y	Mercury, Solid Waste (7471A)	X353	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/26/2005	9 - 9.5	Y	PCB (8082)	X353	None
		4/26/2005	9 - 9.5	Y	Petroleum Hydrocarbons (418.1)	X353	None
		4/26/2005	9 - 9.5	Y	Select Metals (6010B)	X353	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/26/2005	9 - 9.5	Y	Volatile Organics (8260B)	X353	None
U0607.5	627676	4/26/2005	7.5 - 8	N	Base-Neutral Organics/PAHs (8270C)	X353	MS/MSD%recovery of 1,2,4-trichlorobenzene and MSD%recovery of 1,4-dichlorobenzene are biased low
		4/26/2005	7.5 - 8	N	Mercury, Solid Waste (7471A)	X353	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/26/2005	7.5 - 8	N	PCB (8082)	X353	None
		4/26/2005	7.5 - 8	N	Petroleum Hydrocarbons (418.1)	X353	None
		4/26/2005	7.5 - 8	N	Select Metals (6010B)	X353	Sb MS recovery is outside Q.C. limits. Q.C. failure attributed to matrix interference.
		4/26/2005	7.5 - 8	N	Volatile Organics (8260B)	X353	None
F042605	627677	4/26/2005	0 - 0	N	Base-Neutral Organics/PAH (Aqueous) (625)	X353	None
		4/26/2005	0 - 0	N	Mercury, Liquid Waste (7470A)	X353	None
		4/26/2005	0 - 0	N	PCB (Aqueous) (608)	X353	None
		4/26/2005	0 - 0	N	Petroleum Hydrocarbons (418.1)	X353	None
		4/26/2005	0 - 0	N	Select Metals (6010B)	X353	None
		4/26/2005	0 - 0	N	Volatile Organics (Aqueous) (624)	X353	None
U0646.5	628260	4/27/2005	46.5 - 47	N	Base-Neutral Organics/PAHs (8270C)	X452	none
		4/27/2005	46.5 - 47	N	Mercury, Solid Waste (7471A)	X452	none
		4/27/2005	46.5 - 47	N	PCB (8082)	X452	MS/MSD RPD for Aroclor-1016 & Aroclor-1260 are biased high. MS recovery of Aroclor-1260 is biased high (blank spike recovery is within Q.C. limits).
		4/27/2005	46.5 - 47	N	Petroleum Hydrocarbons (418.1)	X452	none

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Sample ID	Lab ID	Date	Depth	Dup	Analysis (Method)	Lab Job #	Nonconformance
U0646.5	628260	4/27/2005	46.5 - 47	N	Select Metals (6010B)	X452	Antimony MSR is outside QC limits. QC failure attributed to matrix interference (LCS/Blank spike recoveries are within QC limits).
		4/27/2005	46.5 - 47	N	Volatile Organics (8260B)	X452	none
U0305.0	628261	4/27/2005	5 - 5.5	N	Base-Neutral Organics/PAHs (8270C)	X452	none
		4/27/2005	5 - 5.5	N	Mercury, Solid Waste (7471A)	X452	none
		4/27/2005	5 - 5.5	N	PCB (8082)	X452	none
		4/27/2005	5 - 5.5	N	Petroleum Hydrocarbons (418.1)	X452	none
		4/27/2005	5 - 5.5	N	Select Metals (6010B)	X452	Cr and Zn SDup RPDs outside QC limits. Poor precision attributed to nonhomo samp (LCS/LCSdup RPD are within QC limits). Sb and Zn MS recoveries outside QC limits. QC failure attributed to matrix interference (LCS/Blank spike recoveries within QC limits).
		4/27/2005	5 - 5.5	N	Volatile Organics (8260B)	X452	none
U0323.5	628262	4/27/2005	23.5 - 24	N	Select Metals (6010B)	X452	none
F042705	628263	4/27/2005	0 - 0	N	Base-Neutral Organics/PAH (Aqueous) (625)	X453	None
		4/27/2005	0 - 0	N	Mercury, Liquid Waste (7470A)	X453	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/27/2005	0 - 0	N	PCB (Aqueous) (608)	X453	None
		4/27/2005	0 - 0	N	Petroleum Hydrocarbons (418.1)	X453	None
		4/27/2005	0 - 0	N	Select Metals (6010B)	X453	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
U0317.5	628264	4/27/2005	17.5 - 18	N	Base-Neutral Organics/PAHs (8270C)	X453	MS/MSD RPDof Pentachlorolphenol is biased high.
		4/27/2005	17.5 - 18	N	Mercury, Solid Waste (7471A)	X453	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/27/2005	17.5 - 18	N	PCB (8082)	X453	None
		4/27/2005	17.5 - 18	N	Petroleum Hydrocarbons (418.1)	X453	None
		4/27/2005	17.5 - 18	N	Select Metals (6010B)	X453	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
U1006.0	628698	4/28/2005	6 - 6.5	N	Base-Neutral Organics/PAHs (8270C)	X540	None

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U1006.0	628698	4/28/2005	6 - 6.5	N	Mercury, Solid Waste (7471A)	X540	Sb/Zn MS recoveries are outside Q.C.limits.Q.C.failure attributed to MI(LCS/Blank spike recoveries are within Q.C.limits).,Cr/Zn Sdup RPDs are outside Q.C.limits. Poor precision attributed to nonhomogenous sample(LCS/LCSdup RPD are within Q.C.limits)
		4/28/2005	6 - 6.5	N	PCB (8082)	X540	Sample 628698 reanalyzed outside holdtime due to carryover from previous sample run.
		4/28/2005	6 - 6.5	N	Petroleum Hydrocarbons (418.1)	X540	None
		4/28/2005	6 - 6.5	N	Select Metals (6010B)	X540	Sb/Zn MS recoveries are outside Q.C.limits.Q.C.failure attributed to MI(LCS/Blank spike recoveries are within Q.C.limits).,Cr/Zn Sdup RPDs are outside Q.C.limits. Poor precision attributed to nonhomogenous sample(LCS/LCSdup RPD are within Q.C.limits)
		4/28/2005	6 - 6.5	N	Volatile Organics (8260B)	X540	Sample 628698 reanalyzed outside holdtime due to carryover from previous sample run.
U1106.0	628699	4/28/2005	6 - 6.5	N	Base-Neutral Organics/PAHs (8270C)	X540	None
		4/28/2005	6 - 6.5	N	Mercury, Solid Waste (7471A)	X540	Sb/Zn MS recoveries are outside Q.C.limits.Q.C.failure attributed to MI(LCS/Blank spike recoveries are within Q.C.limits).,Cr/Zn Sdup RPDs are outside Q.C.limits. Poor precision attributed to nonhomogenous sample(LCS/LCSdup RPD are within Q.C.limits)
		4/28/2005	6 - 6.5	N	PCB (8082)	X540	None
		4/28/2005	6 - 6.5	N	Petroleum Hydrocarbons (418.1)	X540	None
		4/28/2005	6 - 6.5	N	Select Metals (6010B)	X540	Sb/Zn MS recoveries are outside Q.C.limits.Q.C.failure attributed to MI(LCS/Blank spike recoveries are within Q.C.limits).,Cr/Zn Sdup RPDs are outside Q.C.limits. Poor precision attributed to nonhomogenous sample(LCS/LCSdup RPD are within Q.C.limits)
U0906.0	628700	4/28/2005	6 - 6.5	N	Base-Neutral Organics/PAHs (8270C)	X540	None
		4/28/2005	6 - 6.5	N	Mercury, Solid Waste (7471A)	X540	Sb/Zn MS recoveries are outside Q.C.limits.Q.C.failure attributed to MI(LCS/Blank spike recoveries are within Q.C.limits).,Cr/Zn Sdup RPDs are outside Q.C.limits. Poor precision attributed to nonhomogenous sample(LCS/LCSdup RPD are within Q.C.limits)
		4/28/2005	6 - 6.5	N	PCB (8082)	X540	None
		4/28/2005	6 - 6.5	N	Petroleum Hydrocarbons (418.1)	X540	None
		4/28/2005	6 - 6.5	N	Select Metals (6010B)	X540	None

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U0906.0	628700	4/28/2005	6 - 6.5	N	Volatile Organics (8260B)	X540	None
U0805.5	628701	4/28/2005	5.5 - 6	N	Base-Neutral Organics/PAHs (8270C)	X540	None
		4/28/2005	5.5 - 6	N	Mercury, Solid Waste (7471A)	X540	Sb/Zn MS recoveries are outside Q.C.limits.Q.C.failure attributed to MI(LCS/Blank spike recoveries are within Q.C.limits).,Cr/Zn Sdup RPDs are outside Q.C.limits. Poor precision attributed to nonhomogenous sample(LCS/LCSdup RPD are within Q.C.limits)
		4/28/2005	5.5 - 6	N	PCB (8082)	X540	None
		4/28/2005	5.5 - 6	N	Petroleum Hydrocarbons (418.1)	X540	None
		4/28/2005	5.5 - 6	N	Select Metals (6010B)	X540	None
		4/28/2005	5.5 - 6	N	Volatile Organics (8260B)	X540	None
U0702.0	628702	4/28/2005	2 - 2.5	N	Select Metals (6010B)	X540	None
U0705.5	628703	4/28/2005	5.5 - 6	N	Base-Neutral Organics/PAHs (8270C)	X540	None
		4/28/2005	5.5 - 6	N	Mercury, Solid Waste (7471A)	X540	Sb/Zn MS recoveries are outside Q.C.limits.Q.C.failure attributed to MI(LCS/Blank spike recoveries are within Q.C.limits).,Cr/Zn Sdup RPDs are outside Q.C.limits. Poor precision attributed to nonhomogenous sample(LCS/LCSdup RPD are within Q.C.limits)
		4/28/2005	5.5 - 6	N	PCB (8082)	X540	None
		4/28/2005	5.5 - 6	N	Petroleum Hydrocarbons (418.1)	X540	None
		4/28/2005	5.5 - 6	N	Select Metals (6010B)	X540	None
		4/28/2005	5.5 - 6	N	Volatile Organics (8260B)	X540	None
U1306.0	628704	4/28/2005	6 - 6.5	N	Base-Neutral Organics/PAHs (8270C)	X540	None
		4/28/2005	6 - 6.5	N	Mercury, Solid Waste (7471A)	X540	Sb/Zn MS recoveries are outside Q.C.limits.Q.C.failure attributed to MI(LCS/Blank spike recoveries are within Q.C.limits).,Cr/Zn Sdup RPDs are outside Q.C.limits. Poor precision attributed to nonhomogenous sample(LCS/LCSdup RPD are within Q.C.limits)
		4/28/2005	6 - 6.5	N	PCB (8082)	X540	None
		4/28/2005	6 - 6.5	N	Petroleum Hydrocarbons (418.1)	X540	None
		4/28/2005	6 - 6.5	N	Select Metals (6010B)	X540	Sb/Zn MS recoveries are outside Q.C.limits.Q.C.failure attributed to MI(LCS/Blank spike recoveries are within Q.C.limits).,Cr/Zn Sdup RPDs are outside Q.C.limits. Poor precision attributed to nonhomogenous sample(LCS/LCSdup RPD are within Q.C.limits)

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Sample ID	Lab ID	Date	Depth	Dup	Analysis (Method)	Lab Job #	Nonconformance
U1306.0	628704	4/28/2005	6 - 6.5	N	Volatile Organics (8260B)	X540	Sample 628698 reanalyzed outside holdtime due to carryover from previous sample run.
F042805	628705	4/28/2005	0 - 0	N	Base-Neutral Organics/PAH (Aqueous) (625)	X540	None
		4/28/2005	0 - 0	N	Mercury, Liquid Waste (7470A)	X540	Sb/Zn MS recoveries are outside Q.C limits.Q.C. failure attributed to matrix inteference(LCS/Blank spike recoveries are within Q.C. limits).
		4/28/2005	0 - 0	N	PCB (Aqueous) (608)	X540	None
		4/28/2005	0 - 0	N	Petroleum Hydrocarbons (418.1)	X540	None
		4/28/2005	0 - 0	N	Select Metals (6010B)	X540	None
		4/28/2005	0 - 0	N	Volatile Organics (Aqueous) (624)	X540	None
U1214.5	628710	4/28/2005	14.5 - 15	N	Base-Neutral Organics/PAHs (8270C)	X542	None
		4/28/2005	14.5 - 15	N	Mercury, Solid Waste (7471A)	X542	QA batch 18542: Sb MS recovery is outside Q.C. limits. Q.C. failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C. limits).
		4/28/2005	14.5 - 15	N	PCB (8082)	X542	PCB QA batch 2247: MS/MSD RPD for Aroclor-1016&1260 are biased high, matrix spike recovery of Aroclor-260 is biased high(Blank spike recovery is within Q.C. limits).
		4/28/2005	14.5 - 15	N	Petroleum Hydrocarbons (418.1)	X542	None
		4/28/2005	14.5 - 15	N	Select Metals (6010B)	X542	QA batch 18542: Sb MS recovery is outside Q.C. limits. Q.C. failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C. limits).
		4/28/2005	14.5 - 15	N	Volatile Organics (8260B)	X542	None
U0911.5	628713	4/28/2005	11.5 - 12	N	Select Metals (6010B)	X542	None
U0808.0	628714	4/28/2005	8 - 8.5	N	Select Metals (6010B)	X542	None
U0708.0	628715	4/28/2005	8 - 8.5	N	Select Metals (6010B)	X542	None
U1516.D	629053	4/29/2005	16 - 16.5	Y	Base-Neutral Organics/PAHs (8270C)	X621	MS/MSD RPD of Pentachlorophenol is biased high.
		4/29/2005	16 - 16.5	Y	Mercury, Solid Waste (7471A)	X621	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C.limits)
		4/29/2005	16 - 16.5	Y	PCB (8082)	X621	None
		4/29/2005	16 - 16.5	Y	Petroleum Hydrocarbons (418.1)	X621	None
		4/29/2005	16 - 16.5	Y	Select Metals (6010B)	X621	None

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U1516.D	629053	4/29/2005	16 - 16.5	Y	Volatile Organics (8260B)	X621	None
U1806.0	629054	4/29/2005	6 - 6.5	N	Base-Neutral Organics/PAHs (8270C)	X622	MS/MSD RPD of pentachloropphenol is biased high.
		4/29/2005	6 - 6.5	N	Mercury, Solid Waste (7471A)	X622	Sb MS recovery is outside Q.C limits.Q.C. failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C. limits).
		4/29/2005	6 - 6.5	N	PCB (8082)	X622	None
		4/29/2005	6 - 6.5	N	Petroleum Hydrocarbons (418.1)	X622	None
		4/29/2005	6 - 6.5	N	Select Metals (6010B)	X622	Sb MS recovery is outside Q.C limits.Q.C. failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C. limits).
		4/29/2005	6 - 6.5	N	Volatile Organics (8260B)	X622	None
U1716.0	629055	4/29/2005	16 - 16.5	N	Base-Neutral Organics/PAHs (8270C)	X622	MS/MSD RPD of pentachloropphenol is biased high.
		4/29/2005	16 - 16.5	N	Mercury, Solid Waste (7471A)	X622	Sb MS recovery is outside Q.C limits.Q.C. failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C. limits).
		4/29/2005	16 - 16.5	N	PCB (8082)	X622	None
		4/29/2005	16 - 16.5	N	Petroleum Hydrocarbons (418.1)	X622	None
		4/29/2005	16 - 16.5	N	Select Metals (6010B)	X622	Sb MS recovery is outside Q.C limits.Q.C. failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C. limits).
		4/29/2005	16 - 16.5	N	Volatile Organics (8260B)	X622	None
U1516.0	629056	4/29/2005	16 - 16.5	N	Base-Neutral Organics/PAHs (8270C)	X622	MS/MSD RPD of pentachloropphenol is biased high.
		4/29/2005	16 - 16.5	N	Mercury, Solid Waste (7471A)	X622	Sb MS recovery is outside Q.C limits.Q.C. failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C. limits).
		4/29/2005	16 - 16.5	N	PCB (8082)	X622	None
		4/29/2005	16 - 16.5	N	Petroleum Hydrocarbons (418.1)	X622	None
		4/29/2005	16 - 16.5	N	Select Metals (6010B)	X622	Sb MS recovery is outside Q.C limits.Q.C. failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C. limits).
		4/29/2005	16 - 16.5	N	Volatile Organics (8260B)	X622	None
U1416.0	629057	4/29/2005	16 - 16.5	N	Base-Neutral Organics/PAHs (8270C)	X622	MS/MSD RPD of pentachloropphenol is biased high.
		4/29/2005	16 - 16.5	N	Mercury, Solid Waste (7471A)	X622	Sb MS recovery is outside Q.C limits.Q.C. failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C. limits).
		4/29/2005	16 - 16.5	N	PCB (8082)	X622	None

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U1416.0	629057	4/29/2005	16 - 16.5	N	Petroleum Hydrocarbons (418.1)	X622	None
		4/29/2005	16 - 16.5	N	Select Metals (6010B)	X622	Sb MS recovery is outside Q.C limits.Q.C. failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C. limits).
		4/29/2005	16 - 16.5	N	Volatile Organics (8260B)	X622	None
U1616.0	629058	4/29/2005	16 - 16.5	N	Base-Neutral Organics/PAHs (8270C)	X622	MS/MSD RPD of pentachloropphenol is biased high.
		4/29/2005	16 - 16.5	N	Mercury, Solid Waste (7471A)	X622	Sb MS recovery is outside Q.C limits.Q.C. failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C. limits).
		4/29/2005	16 - 16.5	N	PCB (8082)	X622	None
		4/29/2005	16 - 16.5	N	Petroleum Hydrocarbons (418.1)	X622	None
		4/29/2005	16 - 16.5	N	Select Metals (6010B)	X622	Sb MS recovery is outside Q.C limits.Q.C. failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C. limits).
F042905	629059	4/29/2005	16 - 16.5	N	Volatile Organics (8260B)	X622	None
		4/29/2005	0 - 0	N	Base-Neutral Organics/PAH (Aqueous) (625)	X622	None
		4/29/2005	0 - 0	N	Mercury, Liquid Waste (7470A)	X622	Sb MS recovery is outside Q.C limits.Q.C. failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C. limits).
		4/29/2005	0 - 0	N	PCB (Aqueous) (608)	X622	None
		4/29/2005	0 - 0	N	Petroleum Hydrocarbons (418.1)	X622	None
V0608.0	629376	4/29/2005	0 - 0	N	Select Metals (6010B)	X622	Sb MS recovery is outside Q.C limits.Q.C. failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C. limits).
		4/29/2005	0 - 0	N	Volatile Organics (Aqueous) (624)	X622	None
		5/2/2005	8 - 8.5	N	Base-Neutral Organics/PAHs (8270C)	X712	None
		5/2/2005	8 - 8.5	N	Mercury, Solid Waste (7471A)	X712	Cr and Zn Sample Duplicate RPD(s) are outside Q.C. limits. Poor precision attributed to non homogeneous sample (LCS/LCSdup RPD are within Q.C. limits).
		5/2/2005	8 - 8.5	N	PCB (8082)	X712	None
		5/2/2005	8 - 8.5	N	Petroleum Hydrocarbons (418.1)	X712	None
		5/2/2005	8 - 8.5	N	Select Metals (6010B)	X712	Sb and Zn M.S. recoveries are outside Q.C. limits. Q.C. failure attributed to matrix interference (LCS/Blank spike recoveries are within Q.C. limits).
		5/2/2005	8 - 8.5	N	Volatile Organics (8260B)	X712	None

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V0715.5	629377	5/2/2005	15.5 - 16	N	Base-Neutral Organics/PAHs (8270C)	X712	None
		5/2/2005	15.5 - 16	N	Mercury, Solid Waste (7471A)	X712	Cr and Zn Sample Duplicate RPD(s) are outside Q.C. limits. Poor precision attributed to non homogeneous sample (LCS/LCSdup RPD are within Q.C. limits).
		5/2/2005	15.5 - 16	N	PCB (8082)	X712	None
		5/2/2005	15.5 - 16	N	Petroleum Hydrocarbons (418.1)	X712	None
		5/2/2005	15.5 - 16	N	Select Metals (6010B)	X712	Sb and Zn M.S. recoveries are outside Q.C. limits. Q.C. failure attributed to matrix interference (LCS/Blank spike recoveries are within Q.C. limits).
F050205	629378	5/2/2005	15.5 - 16	N	Volatile Organics (8260B)	X712	None
		5/2/2005	0 - 0	N	Base-Neutral Organics/PAH (Aqueous) (625)	X712	None
		5/2/2005	0 - 0	N	Mercury, Liquid Waste (7470A)	X712	Cr and Zn Sample Duplicate RPD(s) are outside Q.C. limits. Poor precision attributed to non homogeneous sample (LCS/LCSdup RPD are within Q.C. limits).
		5/2/2005	0 - 0	N	PCB (Aqueous) (608)	X712	None
		5/2/2005	0 - 0	N	Petroleum Hydrocarbons (418.1)	X712	None
V0622.0	629380	5/2/2005	0 - 0	N	Select Metals (6010B)	X712	Sb and Zn M.S. recoveries are outside Q.C. limits. Q.C. failure attributed to matrix interference (LCS/Blank spike recoveries are within Q.C. limits).
		5/2/2005	0 - 0	N	Volatile Organics (Aqueous) (624)	X712	None
		5/2/2005	22 - 22.5	N	Select Metals (6010B)	X713	None
		5/2/2005	15 - 15.5	N	Base-Neutral Organics/PAHs (8270C)	X799	None
		5/3/2005	15 - 15.5	N	Mercury, Solid Waste (7471A)	X799	Sb+Zn MS recoveries are outside Q.C.limits.Fail attributed to MI (LCS/Blank spike recoveries are w/in Q.C.limits.Cr+Zn Sample duplicates RPD9(s) are outside Q.C.limits.Poor precision attributed to nonhomogenous sample (LCS/LCSdup RPD are w/in Q.C.limits)
V0415.0	629654	5/3/2005	15 - 15.5	N	PCB (8082)	X799	None
		5/3/2005	15 - 15.5	N	Petroleum Hydrocarbons (418.1)	X799	None
		5/3/2005	15 - 15.5	N	Select Metals (6010B)	X799	Sb+Zn MS recoveries are outside Q.C.limits.Fail attributed to MI (LCS/Blank spike recoveries are w/in Q.C.limits.Cr+Zn Sample duplicates RPD9(s) are outside Q.C.limits.Poor precision attributed to nonhomogenous sample (LCS/LCSdup RPD are w/in Q.C.limits)
		5/3/2005	15 - 15.5	N	Select Metals (6010B)	X799	Sb+Zn MS recoveries are outside Q.C.limits.Fail attributed to MI (LCS/Blank spike recoveries are w/in Q.C.limits.Cr+Zn Sample duplicates RPD9(s) are outside Q.C.limits.Poor precision attributed to nonhomogenous sample (LCS/LCSdup RPD are w/in Q.C.limits)

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Main Facility Area SI/RI/RAW
Former Ingersoll-Rand Facility - Phillipsburg, New Jersey

Sample ID	Lab ID	Date	Depth	Dup	Analysis (Method)	Lab Job #	Nonconformance
V0415.0	629654	5/3/2005	15 - 15.5	N	Volatile Organics (8260B)	X799	None
V0415.D	629655	5/3/2005	15 - 15.5	Y	Base-Neutral Organics/PAHs (8270C)	X799	None
		5/3/2005	15 - 15.5	Y	Mercury, Solid Waste (7471A)	X799	Sb+Zn MS recoveries are outside Q.C.limits.Fail attributed to MI (LCS/Blank spike recoveries are w/in Q.C.limits.Cr+Zn Sample duplicates RPD9(s) are outside Q.C.limits.Poor precision attributed to nonhomogenous sample (LCS/LCSdup RPD are w/in Q.C.limits)
		5/3/2005	15 - 15.5	Y	PCB (8082)	X799	None
		5/3/2005	15 - 15.5	Y	Petroleum Hydrocarbons (418.1)	X799	None
		5/3/2005	15 - 15.5	Y	Select Metals (6010B)	X799	Sb+Zn MS recoveries are outside Q.C.limits.Fail attributed to MI (LCS/Blank spike recoveries are w/in Q.C.limits.Cr+Zn Sample duplicates RPD9(s) are outside Q.C.limits.Poor precision attributed to nonhomogenous sample (LCS/LCSdup RPD are w/in Q.C.limits)
		5/3/2005	15 - 15.5	Y	Volatile Organics (8260B)	X799	None
V0522.0	629656	5/3/2005	22 - 22.5	N	Base-Neutral Organics/PAHs (8270C)	X799	None
		5/3/2005	22 - 22.5	N	Mercury, Solid Waste (7471A)	X799	Sb+Zn MS recoveries are outside Q.C.limits.Fail attributed to MI (LCS/Blank spike recoveries are w/in Q.C.limits.Cr+Zn Sample duplicates RPD9(s) are outside Q.C.limits.Poor precision attributed to nonhomogenous sample (LCS/LCSdup RPD are w/in Q.C.limits)
		5/3/2005	22 - 22.5	N	PCB (8082)	X799	None
		5/3/2005	22 - 22.5	N	Petroleum Hydrocarbons (418.1)	X799	None
		5/3/2005	22 - 22.5	N	Select Metals (6010B)	X799	Sb+Zn MS recoveries are outside Q.C.limits.Fail attributed to MI (LCS/Blank spike recoveries are w/in Q.C.limits.Cr+Zn Sample duplicates RPD9(s) are outside Q.C.limits.Poor precision attributed to nonhomogenous sample (LCS/LCSdup RPD are w/in Q.C.limits)
		5/3/2005	22 - 22.5	N	Volatile Organics (8260B)	X799	None
V0314.0	629657	5/3/2005	14 - 14.5	N	Base-Neutral Organics/PAHs (8270C)	X799	None
		5/3/2005	14 - 14.5	N	Mercury, Solid Waste (7471A)	X799	Sb+Zn MS recoveries are outside Q.C.limits.Fail attributed to MI (LCS/Blank spike recoveries are w/in Q.C.limits.Cr+Zn Sample duplicates RPD9(s) are outside Q.C.limits.Poor precision attributed to nonhomogenous sample (LCS/LCSdup RPD are w/in Q.C.limits)
		5/3/2005	14 - 14.5	N	PCB (8082)	X799	None
		5/3/2005	14 - 14.5	N	Petroleum Hydrocarbons (418.1)	X799	None

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Sample ID	Lab ID	Date	Depth	Dup	Analysis (Method)	Lab Job #	Nonconformance
V0314.0	629657	5/3/2005	14 - 14.5	N	Select Metals (6010B)	X799	Sb+Zn MS recoveries are outside Q.C.limits.Fail attributed to MI (LCS/Blank spike recoveries are w/in Q.C.limits.Cr+Zn Sample duplicates RPD9(s) are outside Q.C.limits.Poor precision attributed to nonhomogenous sample (LCS/LCSdup RPD are w/in Q.C.limits)
		5/3/2005	14 - 14.5	N	Volatile Organics (8260B)	X799	None
D0516.5	629658	5/3/2005	16.5 - 17	N	Base-Neutral Organics/PAHs (8270C)	X799	None
		5/3/2005	16.5 - 17	N	Mercury, Solid Waste (7471A)	X799	Sb+Zn MS recoveries are outside Q.C.limits.Fail attributed to MI (LCS/Blank spike recoveries are w/in Q.C.limits.Cr+Zn Sample duplicates RPD9(s) are outside Q.C.limits.Poor precision attributed to nonhomogenous sample (LCS/LCSdup RPD are w/in Q.C.limits)
		5/3/2005	16.5 - 17	N	PCB (8082)	X799	None
		5/3/2005	16.5 - 17	N	Petroleum Hydrocarbons (418.1)	X799	None
		5/3/2005	16.5 - 17	N	Select Metals (6010B)	X799	Sb+Zn MS recoveries are outside Q.C.limits.Fail attributed to MI (LCS/Blank spike recoveries are w/in Q.C.limits.Cr+Zn Sample duplicates RPD9(s) are outside Q.C.limits.Poor precision attributed to nonhomogenous sample (LCS/LCSdup RPD are w/in Q.C.limits)
		5/3/2005	16.5 - 17	N	Volatile Organics (8260B)	X799	None
D0522.5	629659	5/3/2005	22.5 - 23	N	Base-Neutral Organics/PAHs (8270C)	X799	None
		5/3/2005	22.5 - 23	N	Mercury, Solid Waste (7471A)	X799	Sb+Zn MS recoveries are outside Q.C.limits.Fail attributed to MI (LCS/Blank spike recoveries are w/in Q.C.limits.Cr+Zn Sample duplicates RPD9(s) are outside Q.C.limits.Poor precision attributed to nonhomogenous sample (LCS/LCSdup RPD are w/in Q.C.limits)
		5/3/2005	22.5 - 23	N	PCB (8082)	X799	None
		5/3/2005	22.5 - 23	N	Petroleum Hydrocarbons (418.1)	X799	None
		5/3/2005	22.5 - 23	N	Select Metals (6010B)	X799	Sb+Zn MS recoveries are outside Q.C.limits.Fail attributed to MI (LCS/Blank spike recoveries are w/in Q.C.limits.Cr+Zn Sample duplicates RPD9(s) are outside Q.C.limits.Poor precision attributed to nonhomogenous sample (LCS/LCSdup RPD are w/in Q.C.limits)
		5/3/2005	22.5 - 23	N	Volatile Organics (8260B)	X799	None
F050305	629660	5/3/2005	0 - 0	N	Base-Neutral Organics/PAH (Aqueous) (625)	X799	None
		5/3/2005	0 - 0	N	Mercury, Liquid Waste (7470A)	X799	Sb+Zn MS recoveries are outside Q.C.limits.Fail attributed to MI (LCS/Blank spike recoveries are w/in Q.C.limits.Cr+Zn Sample duplicates RPD9(s) are outside Q.C.limits.Poor precision attributed to nonhomogenous sample (LCS/LCSdup RPD are w/in Q.C.limits)

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Sample ID	Lab ID	Date	Depth	Dup	Analysis (Method)	Lab Job #	Nonconformance
F050305	629660	5/3/2005	0 - 0	N	PCB (Aqueous) (608)	X799	None
		5/3/2005	0 - 0	N	Petroleum Hydrocarbons (418.1)	X799	None
		5/3/2005	0 - 0	N	Select Metals (6010B)	X799	Sb+Zn MS recoveries are outside Q.C.limits.Fail attributed to MI (LCS/Blank spike recoveries are w/in Q.C.limits.Cr+Zn Sample duplicates RPD9(s) are outside Q.C.limits.Poor precision attributed to nonhomogenous sample (LCS/LCSdup RPD are w/in Q.C.limits)
		5/3/2005	0 - 0	N	Volatile Organics (Aqueous) (624)	X799	None
F050405	630044	5/4/2005	0 - 0	N	Base-Neutral Organics/PAH (Aqueous) (625)	X908	BS% recoveries of 4,6-Dinitro-2-methylphenol, Indeno(1,2,3-cd)pyrene, and benzo(g,h,i)perylene are biased low.
		5/4/2005	0 - 0	N	Mercury, Liquid Waste (7470A)	X908	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to MI(LCS/Blank spike recoveries are within Q.C.limits)
		5/4/2005	0 - 0	N	PCB (Aqueous) (608)	X908	None
		5/4/2005	0 - 0	N	Petroleum Hydrocarbons (418.1)	X908	None
		5/4/2005	0 - 0	N	Select Metals (6010B)	X908	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to MI(LCS/Blank spike recoveries are within Q.C.limits)
		5/4/2005	0 - 0	N	Volatile Organics (Aqueous) (624)	X908	None
V1A14.0	630045	5/4/2005	14 - 14.5	N	Base-Neutral Organics/PAHs (8270C)	X908	None
		5/4/2005	14 - 14.5	N	Mercury, Solid Waste (7471A)	X908	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to MI(LCS/Blank spike recoveries are within Q.C.limits)
		5/4/2005	14 - 14.5	N	PCB (8082)	X908	None
		5/4/2005	14 - 14.5	N	Petroleum Hydrocarbons (418.1)	X908	None
		5/4/2005	14 - 14.5	N	Select Metals (6010B)	X908	None
		5/4/2005	14 - 14.5	N	Volatile Organics (8260B)	X908	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to MI(LCS/Blank spike recoveries are within Q.C.limits)
V0208.5	630046	5/4/2005	8.5 - 9	N	Base-Neutral Organics/PAHs (8270C)	X908	None
		5/4/2005	8.5 - 9	N	Mercury, Solid Waste (7471A)	X908	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to MI(LCS/Blank spike recoveries are within Q.C.limits)
		5/4/2005	8.5 - 9	N	PCB (8082)	X908	None
		5/4/2005	8.5 - 9	N	Petroleum Hydrocarbons (418.1)	X908	None
		5/4/2005	8.5 - 9	N	Select Metals (6010B)	X908	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to MI(LCS/Blank spike recoveries are within Q.C.limits)

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Sample ID	Lab ID	Date	Depth	Dup	Analysis (Method)	Lab Job #	Nonconformance
V0208.5	630046	5/4/2005	8.5 - 9	N	Volatile Organics (8260B)	X908	None
V0228.5	630047	5/4/2005	28.5 - 29	N	Base-Neutral Organics/PAHs (8270C)	X908	None
		5/4/2005	28.5 - 29	N	Mercury, Solid Waste (7471A)	X908	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to MI(LCS/Blank spike recoveries are within Q.C.limits)
		5/4/2005	28.5 - 29	N	PCB (8082)	X908	None
		5/4/2005	28.5 - 29	N	Petroleum Hydrocarbons (418.1)	X908	None
		5/4/2005	28.5 - 29	N	Select Metals (6010B)	X908	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to MI(LCS/Blank spike recoveries are within Q.C.limits)
		5/4/2005	28.5 - 29	N	Volatile Organics (8260B)	X908	None
D0606.0	630048	5/4/2005	6 - 6.5	N	Base-Neutral Organics/PAHs (8270C)	X908	None
		5/4/2005	6 - 6.5	N	Mercury, Solid Waste (7471A)	X908	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to MI(LCS/Blank spike recoveries are within Q.C.limits)
		5/4/2005	6 - 6.5	N	PCB (8082)	X908	None
		5/4/2005	6 - 6.5	N	Petroleum Hydrocarbons (418.1)	X908	None
		5/4/2005	6 - 6.5	N	Select Metals (6010B)	X908	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to MI(LCS/Blank spike recoveries are within Q.C.limits)
D0708.0	630049	5/4/2005	8 - 8.5	N	Base-Neutral Organics/PAHs (8270C)	X908	None
		5/4/2005	8 - 8.5	N	Mercury, Solid Waste (7471A)	X908	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to MI(LCS/Blank spike recoveries are within Q.C.limits)
		5/4/2005	8 - 8.5	N	PCB (8082)	X908	None
		5/4/2005	8 - 8.5	N	Petroleum Hydrocarbons (418.1)	X908	None
		5/4/2005	8 - 8.5	N	Select Metals (6010B)	X908	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to MI(LCS/Blank spike recoveries are within Q.C.limits)
		5/4/2005	8 - 8.5	N	Volatile Organics (8260B)	X908	None
D0805.5	630050	5/4/2005	5.5 - 6	N	Base-Neutral Organics/PAHs (8270C)	X908	None
		5/4/2005	5.5 - 6	N	Mercury, Solid Waste (7471A)	X908	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to MI(LCS/Blank spike recoveries are within Q.C.limits)
		5/4/2005	5.5 - 6	N	PCB (8082)	X908	None
		5/4/2005	5.5 - 6	N	Petroleum Hydrocarbons (418.1)	X908	None

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Sample ID	Lab ID	Date	Depth	Dup	Analysis (Method)	Lab Job #	Nonconformance
D0805.5	630050	5/4/2005	5.5 - 6	N	Select Metals (6010B)	X908	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to MI(LCS/Blank spike recoveries are within Q.C.limits)
D0907.5	630051	5/4/2005	7.5 - 8	N	Base-Neutral Organics/PAHs (8270C)	X908	None
		5/4/2005	7.5 - 8	N	Mercury, Solid Waste (7471A)	X908	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to MI(LCS/Blank spike recoveries are within Q.C.limits)
		5/4/2005	7.5 - 8	N	PCB (8082)	X908	None
		5/4/2005	7.5 - 8	N	Petroleum Hydrocarbons (418.1)	X908	None
		5/4/2005	7.5 - 8	N	Select Metals (6010B)	X908	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to MI(LCS/Blank spike recoveries are within Q.C.limits)
		5/4/2005	7.5 - 8	N	Volatile Organics (8260B)	X908	None
D0418.0	630052	5/4/2005	18 - 18.5	N	Base-Neutral Organics/PAHs (8270C)	X908	None
		5/4/2005	18 - 18.5	N	Mercury, Solid Waste (7471A)	X908	Pb sample duplicate RPD(s) is outside Q.C.limits.Poor precision attributed to nonhomogeneous sample(LCS/LCSdup RPD is within Q.C. limits). Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to MI(LCS/Blank spike recoveries are within Q.C.limits)
		5/4/2005	18 - 18.5	N	PCB (8082)	X908	None
		5/4/2005	18 - 18.5	N	Petroleum Hydrocarbons (418.1)	X908	None
		5/4/2005	18 - 18.5	N	Select Metals (6010B)	X908	Pb sample duplicate RPD(s) is outside Q.C.limits.Poor precision attributed to nonhomogeneous sample(LCS/LCSdup RPD is within Q.C. limits). Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to MI(LCS/Blank spike recoveries are within Q.C.limits)
		5/4/2005	18 - 18.5	N	Volatile Organics (8260B)	X908	None
V0130.5	630053	5/4/2005	30.5 - 31	N	Select Metals (6010B)	X908	Sb MS recovery is outside Q.C.limits.Q.C.failure attributed to MI(LCS/Blank spike recoveries are within Q.C.limits)
R0100.5	630412	5/5/2005	0.5 - 1	N	PCB (8082)	Y019	None
		5/5/2005	0.5 - 1	N	Petroleum Hydrocarbons (418.1)	Y019	None
R0200.5	630413	5/5/2005	0.5 - 1	N	PCB (8082)	Y019	None
		5/5/2005	0.5 - 1	N	Petroleum Hydrocarbons (418.1)	Y019	None
R0300.5	630414	5/5/2005	0.5 - 1	N	PCB (8082)	Y019	None
		5/5/2005	0.5 - 1	N	Petroleum Hydrocarbons (418.1)	Y019	None

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R0400.5	630415	5/5/2005	0.5 - 1	N	PCB (8082)	Y019	None
		5/5/2005	0.5 - 1	N	Petroleum Hydrocarbons (418.1)	Y019	None
F050505	630416	5/5/2005	0 - 0	N	PCB (8082)	Y019	MS/MSD RPD for Aroclor-1016 & Aroclor-1260 are biased high. MS spike recovery of Aroclor-1260 is biased high(blank spike recovery is within Q.C. limits)
		5/5/2005	0 - 0	N	Petroleum Hydrocarbons (418.1)	Y019	None
A1712.0	634062	5/18/2005	12 - 12.5	N	Base-Neutral Organics/PAHs (8270C)	Y735	None
		5/18/2005	12 - 12.5	N	Mercury, Solid Waste (7471A)	Y735	None
		5/18/2005	12 - 12.5	N	PCB (8082)	Y735	None
		5/18/2005	12 - 12.5	N	Petroleum Hydrocarbons (418.1)	Y735	None
		5/18/2005	12 - 12.5	N	Select Metals (6010B)	Y735	Zn Sam Dup RPD(s) is outside Q.C. limits. Poor precision attributed to non homogeneous sample (LCS/LCSdup RPD within Q.C. limits). Sb MS recovery is outside Q.C. limits, failure attributed to MI (LCS/Blank SR within Q.C. limits).
		5/18/2005	12 - 12.5	N	Volatile Organics (8260B)	Y735	None
A1734.8	634063	5/18/2005	34.8 - 35.3	N	Base-Neutral Organics/PAHs (8270C)	Y735	MS % recovery of 4-Nitrophenol and Pentachlorophenol are biased low due to matrix interference (blank spike recovery is within QC limits). MS/MSD % recovery of Acenaphthene is biased high (present in unspiked sample).
		5/18/2005	34.8 - 35.3	N	Mercury, Solid Waste (7471A)	Y735	None

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A1734.8	634063	5/18/2005	34.8 - 35.3	N	PCB (8082)	Y735	None
		5/18/2005	34.8 - 35.3	N	Petroleum Hydrocarbons (418.1)	Y735	None
		5/18/2005	34.8 - 35.3	N	Select Metals (6010B)	Y735	Zn Sam Dup RPD(s) is outside Q.C. limits. Poor precision attributed to non homogeneous sample (LCS/LCSdup RPD within Q.C. limits). Sb MS recovery is outside Q.C. limits, failure attributed to MI (LCS/Blank SR within Q.C. limits).
A0514.5	634064	5/18/2005	34.8 - 35.3	N	Volatile Organics (8260B)	Y735	None
		5/18/2005	14.5 - 15	N	Base-Neutral Organics/PAHs (8270C)	Y735	None
		5/18/2005	14.5 - 15	N	Mercury, Solid Waste (7471A)	Y735	None
		5/18/2005	14.5 - 15	N	PCB (8082)	Y735	None
		5/18/2005	14.5 - 15	N	Petroleum Hydrocarbons (418.1)	Y735	None
		5/18/2005	14.5 - 15	N	Select Metals (6010B)	Y735	Zn Sam Dup RPD(s) is outside Q.C. limits. Poor precision attributed to non homogeneous sample (LCS/LCSdup RPD within Q.C. limits). Sb MS recovery is outside Q.C. limits, failure attributed to MI (LCS/Blank SR within Q.C. limits).
A0911.5	634065	5/18/2005	14.5 - 15	N	Volatile Organics (8260B)	Y735	None
		5/18/2005	11.5 - 12	N	Base-Neutral Organics/PAHs (8270C)	Y735	None
		5/18/2005	11.5 - 12	N	Mercury, Solid Waste (7471A)	Y735	None
		5/18/2005	11.5 - 12	N	PCB (8082)	Y735	None
		5/18/2005	11.5 - 12	N	Petroleum Hydrocarbons (418.1)	Y735	None
		5/18/2005	11.5 - 12	N	Select Metals (6010B)	Y735	Zn Sam Dup RPD(s) is outside Q.C. limits. Poor precision attributed to non homogeneous sample (LCS/LCSdup RPD within Q.C. limits). Sb MS recovery is outside Q.C. limits, failure attributed to MI (LCS/Blank SR within Q.C. limits).
A1312.0	634066	5/18/2005	11.5 - 12	N	Volatile Organics (8260B)	Y735	None
		5/18/2005	12 - 12.5	N	Base-Neutral Organics/PAHs (8270C)	Y735	None
		5/18/2005	12 - 12.5	N	Mercury, Solid Waste (7471A)	Y735	None
		5/18/2005	12 - 12.5	N	PCB (8082)	Y735	None
		5/18/2005	12 - 12.5	N	Petroleum Hydrocarbons (418.1)	Y735	None

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Sample ID	Lab ID	Date	Depth	Dup	Analysis (Method)	Lab Job #	Nonconformance
A1312.0	634066	5/18/2005	12 - 12.5	N	Select Metals (6010B)	Y735	Zn Sam Dup RPD(s) is outside Q.C. limits. Poor precision attributed to non homogeneous sample (LCS/LCSdup RPD within Q.C. limits). Sb MS recovery is outside Q.C. limits, failure attributed to MI (LCS/Blank SR within Q.C. limits).
F051805	634067	5/18/2005	12 - 12.5	N	Volatile Organics (8260B)	Y735	None
		5/18/2005	0 - 0	N	Base-Neutral Organics/PAH (Aqueous) (625)	Y735	BS % recovery of 2-Chlorophenol is biased high.
		5/18/2005	0 - 0	N	Mercury, Liquid Waste (7470A)	Y735	None
		5/18/2005	0 - 0	N	PCB (Aqueous) (608)	Y735	TCMX/DCB surrogate std recoveries are biased low. (insufficient sample volume to reextract). Sample extract reanalyzed confirming low recovery.
		5/18/2005	0 - 0	N	Petroleum Hydrocarbons (418.1)	Y735	None
		5/18/2005	0 - 0	N	Select Metals (6010B)	Y735	Zn Sam Dup RPD(s) is outside Q.C. limits. Poor precision attributed to non homogeneous sample (LCS/LCSdup RPD within Q.C. limits). Sb MS recovery is outside Q.C. limits, failure attributed to MI (LCS/Blank SR within Q.C. limits).
D0421.0	634068	5/18/2005	0 - 0	N	Volatile Organics (Aqueous) (624)	Y735	None
		5/18/2005	21 - 21.5	N	Base-Neutral Organics/PAHs (8270C)	Y736	None
		5/18/2005	21 - 21.5	N	Mercury, Solid Waste (7471A)	Y736	Ni sampDup RPD is outside QClimits. Poor precisio is attributed to nonhomogenous sample(LCS/LCSdup RPD is withinQClimits). SbMS recovery is outside Qclimits. QC failure attributed to MI(LCS/Blank spike recoveries are within QClimits.
		5/18/2005	21 - 21.5	N	PCB (8082)	Y736	None
		5/18/2005	21 - 21.5	N	Petroleum Hydrocarbons (418.1)	Y736	None
		5/18/2005	21 - 21.5	N	Select Metals (6010B)	Y736	Ni sampDup RPD is outside QClimits. Poor precisio is attributed to nonhomogenous sample(LCS/LCSdup RPD is withinQClimits). SbMS recovery is outside Qclimits. QC failure attributed to MI(LCS/Blank spike recoveries are within QClimits.
D0430.5	634069	5/18/2005	21 - 21.5	N	Volatile Organics (8260B)	Y736	None
		5/18/2005	30.5 - 31	N	Base-Neutral Organics/PAHs (8270C)	Y736	All surrogate standard recoveries are diluted out.
		5/18/2005	30.5 - 31	N	Mercury, Solid Waste (7471A)	Y736	Ni sampDup RPD is outside QC limits.Poor precision attributed to nonhomogenous samp(LCS/LCSdup RPD is within QC limits).Sb MSR is outside QC limits. QC fail attributed to MI(LCS/Blank SR are within QC limits)

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D0430.5	634069	5/18/2005	30.5 - 31	N	PCB (8082)	Y736	None
		5/18/2005	30.5 - 31	N	Petroleum Hydrocarbons (418.1)	Y736	None
		5/18/2005	30.5 - 31	N	Select Metals (6010B)	Y736	Ni samDup RPD is outside QC limits.Poor precision attributed to nonhomogenous samp(LCS/LCSdup RPD is within QC limits).Sb MSR is outside QC limits. QC fail attributed to MI(LCS/Blank SR are within QC limits)
		5/18/2005	30.5 - 31	N	Volatile Organics (8260B)	Y736	None
D1116.5	637612	5/31/2005	16.5 - 17	N	Base-Neutral Organics/PAHs (8270C)	Z351	Smpls received at 14C.Smpls are accepted b/c the chill process begun.MS/MSD% recovery of pyrene is outside Q.C.limits(sample amount is too high for spike level)
		5/31/2005	16.5 - 17	N	Mercury, Solid Waste (7471A)	Z351	Smpls received at 14C.Smpls are accepted b/c the chill process begun.Sb MS recovery is outside Q.C limits. Q.C failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C. limits)
		5/31/2005	16.5 - 17	N	PCB (8082)	Z351	Smpls received at 14C.Smpls are accepted b/c the chill process begun.
		5/31/2005	16.5 - 17	N	Petroleum Hydrocarbons (418.1)	Z351	Smpls received at 14C.Smpls are accepted b/c the chill process begun.
		5/31/2005	16.5 - 17	N	Select Metals (6010B)	Z351	Smpls received at 14C.Smpls are accepted b/c the chill process begun.Sb MS recovery is outside Q.C limits. Q.C failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C. limits)
		5/31/2005	16.5 - 17	N	Volatile Organics (8260B)	Z351	Smpls received at 14C.Smpls are accepted b/c the chill process begun.
D1121.0	637613	5/31/2005	21 - 21.5	N	Base-Neutral Organics/PAHs (8270C)	Z351	Smpls received at 14C.Smpls are accepted b/c the chill process begun.MS/MSD% recovery of pyrene is outside Q.C.limits(sample amount is too high for spike level)
		5/31/2005	21 - 21.5	N	Mercury, Solid Waste (7471A)	Z351	Smpls received at 14C.Smpls are accepted b/c the chill process begun.Sb MS recovery is outside Q.C limits. Q.C failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C. limits)
		5/31/2005	21 - 21.5	N	PCB (8082)	Z351	Smpls received at 14C.Smpls are accepted b/c the chill process begun.
		5/31/2005	21 - 21.5	N	Petroleum Hydrocarbons (418.1)	Z351	Smpls received at 14C.Smpls are accepted b/c the chill process begun.
		5/31/2005	21 - 21.5	N	Select Metals (6010B)	Z351	Smpls received at 14C.Smpls are accepted b/c the chill process begun.Sb MS recovery is outside Q.C limits. Q.C failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C. limits)
		5/31/2005	21 - 21.5	N	Volatile Organics (8260B)	Z351	Smpls received at 14C.Smpls are accepted b/c the chill process begun.
		5/31/2005	21 - 21.5	N	Volatile Organics (8260B)	Z351	Smpls received at 14C.Smpls are accepted b/c the chill process begun.

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D1122.5	637614	5/31/2005	22.5 - 23	N	Base-Neutral Organics/PAHs (8270C)	Z351	Smpls received at 14C.Smpls are accepted b/c the chill process begun.MS/MSD% recovery of pyrene is outside Q.C.limits(sample amount is too high for spike level)
		5/31/2005	22.5 - 23	N	Mercury, Solid Waste (7471A)	Z351	Smpls received at 14C.Smpls are accepted b/c the chill process begun.Sb MS recovery is outside Q.C limits. Q.C failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C. limits)
		5/31/2005	22.5 - 23	N	PCB (8082)	Z351	Smpls received at 14C.Smpls are accepted b/c the chill process begun.
		5/31/2005	22.5 - 23	N	Petroleum Hydrocarbons (418.1)	Z351	Smpls received at 14C.Smpls are accepted b/c the chill process begun.
		5/31/2005	22.5 - 23	N	Select Metals (6010B)	Z351	Smpls received at 14C.Smpls are accepted b/c the chill process begun.Sb MS recovery is outside Q.C limits. Q.C failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C. limits)
D1129.0	637615	5/31/2005	22.5 - 23	N	Volatile Organics (8260B)	Z351	Smpls received at 14C.Smpls are accepted b/c the chill process begun.
		5/31/2005	29 - 29.5	N	Base-Neutral Organics/PAHs (8270C)	Z351	Smpls received at 14C.Smpls are accepted b/c the chill process begun.MS/MSD% recovery of pyrene is outside Q.C.limits(sample amount is too high for spike level)
		5/31/2005	29 - 29.5	N	Mercury, Solid Waste (7471A)	Z351	Smpls received at 14C.Smpls are accepted b/c the chill process begun.Sb MS recovery is outside Q.C limits. Q.C failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C. limits)
		5/31/2005	29 - 29.5	N	PCB (8082)	Z351	Smpls received at 14C.Smpls are accepted b/c the chill process begun.
		5/31/2005	29 - 29.5	N	Petroleum Hydrocarbons (418.1)	Z351	Smpls received at 14C.Smpls are accepted b/c the chill process begun.
D1216.5	637616	5/31/2005	29 - 29.5	N	Select Metals (6010B)	Z351	Smpls received at 14C.Smpls are accepted b/c the chill process begun.Sb MS recovery is outside Q.C limits. Q.C failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C. limits)
		5/31/2005	29 - 29.5	N	Volatile Organics (8260B)	Z351	Smpls received at 14C.Smpls are accepted b/c the chill process begun.
		5/31/2005	16.5 - 17	N	Base-Neutral Organics/PAHs (8270C)	Z351	Smpls received at 14C.Smpls are accepted b/c the chill process begun.MS/MSD% recovery of pyrene is outside Q.C.limits(sample amount is too high for spike level)
		5/31/2005	16.5 - 17	N	Mercury, Solid Waste (7471A)	Z351	Smpls received at 14C.Smpls are accepted b/c the chill process begun.Sb MS recovery is outside Q.C limits. Q.C failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C. limits)
		5/31/2005	16.5 - 17	N	PCB (8082)	Z351	Smpls received at 14C.Smpls are accepted b/c the chill process begun.
		5/31/2005	16.5 - 17	N	Petroleum Hydrocarbons (418.1)	Z351	Smpls received at 14C.Smpls are accepted b/c the chill process begun.

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D1216.5	637616	5/31/2005	16.5 - 17	N	Select Metals (6010B)	Z351	Smpls received at 14C. Smpls are accepted b/c the chill process begun. Sb MS recovery is outside Q.C limits. Q.C failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C. limits)
D1221.0	637617	5/31/2005	16.5 - 17	N	Volatile Organics (8260B)	Z351	Smpls received at 14C. Smpls are accepted b/c the chill process begun.
		5/31/2005	21 - 21.5	N	Base-Neutral Organics/PAHs (8270C)	Z351	Smpls received at 14C. Smpls are accepted b/c the chill process begun. MS/MSD% recovery of pyrene is outside Q.C. limits (sample amount is too high for spike level)
		5/31/2005	21 - 21.5	N	Mercury, Solid Waste (7471A)	Z351	Smpls received at 14C. Smpls are accepted b/c the chill process begun. Sb MS recovery is outside Q.C limits. Q.C failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C. limits)
		5/31/2005	21 - 21.5	N	PCB (8082)	Z351	Smpls received at 14C. Smpls are accepted b/c the chill process begun.
		5/31/2005	21 - 21.5	N	Petroleum Hydrocarbons (418.1)	Z351	Smpls received at 14C. Smpls are accepted b/c the chill process begun.
		5/31/2005	21 - 21.5	N	Select Metals (6010B)	Z351	Smpls received at 14C. Smpls are accepted b/c the chill process begun. Sb MS recovery is outside Q.C limits. Q.C failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C. limits)
D1222.0	637618	5/31/2005	21 - 21.5	N	Volatile Organics (8260B)	Z351	Smpls received at 14C. Smpls are accepted b/c the chill process begun.
		5/31/2005	22 - 22.5	N	Base-Neutral Organics/PAHs (8270C)	Z351	Smpls received at 14C. Smpls are accepted b/c the chill process begun. MS/MSD% recovery of pyrene is outside Q.C. limits (sample amount is too high for spike level)
		5/31/2005	22 - 22.5	N	Mercury, Solid Waste (7471A)	Z351	Smpls received at 14C. Smpls are accepted b/c the chill process begun. Sb MS recovery is outside Q.C limits. Q.C failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C. limits)
		5/31/2005	22 - 22.5	N	PCB (8082)	Z351	Smpls received at 14C. Smpls are accepted b/c the chill process begun.
		5/31/2005	22 - 22.5	N	Petroleum Hydrocarbons (418.1)	Z351	Smpls received at 14C. Smpls are accepted b/c the chill process begun.
		5/31/2005	22 - 22.5	N	Select Metals (6010B)	Z351	Smpls received at 14C. Smpls are accepted b/c the chill process begun. Sb MS recovery is outside Q.C limits. Q.C failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C. limits)
D1230.5	637619	5/31/2005	22 - 22.5	N	Volatile Organics (8260B)	Z351	Smpls received at 14C. Smpls are accepted b/c the chill process begun.
		5/31/2005	30.5 - 31	N	Base-Neutral Organics/PAHs (8270C)	Z351	Smpls received at 14C. Smpls are accepted b/c the chill process begun. MS/MSD% recovery of pyrene is outside Q.C. limits (sample amount is too high for spike level)
		5/31/2005	30.5 - 31	N	Mercury, Solid Waste (7471A)	Z351	Smpls received at 14C. Smpls are accepted b/c the chill process begun. Sb MS recovery is outside Q.C limits. Q.C failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C. limits)

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D1230.5	637619	5/31/2005	30.5 - 31	N	PCB (8082)	Z351	Smpls received at 14C.Smpls are accepted b/c the chill process begun.
		5/31/2005	30.5 - 31	N	Petroleum Hydrocarbons (418.1)	Z351	Smpls received at 14C.Smpls are accepted b/c the chill process begun.
		5/31/2005	30.5 - 31	N	Select Metals (6010B)	Z351	Smpls received at 14C.Smpls are accepted b/c the chill process begun.Sb MS recovery is outside Q.C limits. Q.C failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C. limits)
		5/31/2005	30.5 - 31	N	Volatile Organics (8260B)	Z351	Smpls received at 14C.Smpls are accepted b/c the chill process begun.
F053105	637620	5/31/2005	0 - 0	N	Base-Neutral Organics/PAH (Aqueous) (625)	Z351	Smpls received at 14C.Smpls are accepted b/c the chill process begun.
		5/31/2005	0 - 0	N	Mercury, Liquid Waste (7470A)	Z351	Smpls received at 14C.Smpls are accepted b/c the chill process begun.Sb MS recovery is outside Q.C limits. Q.C failure attributed to matrix interference(LCS/Blank spike recoveries are within Q.C. limits)
		5/31/2005	0 - 0	N	PCB (Aqueous) (608)	Z351	Smpls received at 14C.Smpls are accepted b/c the chill process begun.
		5/31/2005	0 - 0	N	Petroleum Hydrocarbons (418.1)	Z351	Smpls received at 14C.Smpls are accepted b/c the chill process begun.
		5/31/2005	0 - 0	N	Select Metals (6010B)	Z351	Smpls received at 14C.Smpls are accepted b/c the chill process begun.
		5/31/2005	0 - 0	N	Volatile Organics (Aqueous) (624)	Z351	Smpls received at 14C.Smpls are accepted b/c the chill process begun.
W0109.0	637621	5/31/2005	9 - 9.5	N	Base-Neutral Organics/PAHs (8270C)	Z352	Smpls received at 14C.Smpls are accepted b/c the chill process begun.MS/MSD % recovery of Pyrene is outside Q.C. limits (sample amount is too high for spike level)
		5/31/2005	9 - 9.5	N	Mercury, Solid Waste (7471A)	Z352	Smpls received at 14C.Smpls are accepted b/c the chill process begun.Hg SmpDup RPDs are out QClimits.Poor precision attributed to nonhomo smp, LCS/LCSdup RPD within QC limits. Hg MSR outside QC limits.QCfail attributed to MI,LCS/Blank SR within QClimits
		5/31/2005	9 - 9.5	N	PCB (8082)	Z352	Smpls received at 14C.Smpls are accepted b/c the chill process begun.
		5/31/2005	9 - 9.5	N	Petroleum Hydrocarbons (418.1)	Z352	Smpls received at 14C.Smpls are accepted b/c the chill process begun.
		5/31/2005	9 - 9.5	N	Select Metals (6010B)	Z352	Smpls received at 14C.Smpls are accepted b/c the chill process begun.Sb,Cd,Hg SmpDup RPDs out QClimits.Poor precision att. to nonhomo smp,LCS/LCSdupRPD w/in QClimits.Sb,Hg MSR out QClimits.QCfail att. to MI,LCS/BlankSR w/in QClimits
		5/31/2005	9 - 9.5	N	Volatile Organics (8260B)	Z352	Smpls received at 14C.Smpls are accepted b/c the chill process begun.
W0111.0	637622	5/31/2005	11 - 11.5	N	Base-Neutral Organics/PAHs (8270C)	Z352	Smpls received at 14C.Smpls are accepted b/c the chill process begun.MS/MSD % recovery of Pyrene is outside Q.C. limits (sample amount is too high for spike level)

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W0111.0	637622	5/31/2005	11 - 11.5	N	Mercury, Solid Waste (7471A)	Z352	Smps received at 14C. Smps are accepted b/c the chill process begun. Hg SmpDup RPDs are out QC limits. Poor precision attributed to nonhomo smp, LCS/LCSdup RPD within QC limits. Hg MSR outside QC limits. QC fail attributed to MI, LCS/Blank SR within QC limits
		5/31/2005	11 - 11.5	N	PCB (8082)	Z352	Smps received at 14C. Smps are accepted b/c the chill process begun.
		5/31/2005	11 - 11.5	N	Petroleum Hydrocarbons (418.1)	Z352	Smps received at 14C. Smps are accepted b/c the chill process begun.
		5/31/2005	11 - 11.5	N	Select Metals (6010B)	Z352	Smps received at 14C. Smps are accepted b/c the chill process begun. Sb, Cd, Hg SmpDup RPDs out QC limits. Poor precision att. to nonhomo smp, LCS/LCSdup RPD w/in QC limits. Sb, Hg MSR out QC limits. QC fail att. to MI, LCS/Blank SR w/in QC limits
		5/31/2005	11 - 11.5	N	Volatile Organics (8260B)	Z352	Smps received at 14C. Smps are accepted b/c the chill process begun.
A0108.0	638636	6/2/2005	8 - 8.5	N	Base-Neutral Organics/PAHs (8270C)	Z541	None
		6/2/2005	8 - 8.5	N	Mercury, Solid Waste (7471A)	Z541	Hg Samp Dup RPD(s) outside QC limits. Poor precision attributed to non homogeneous sample (LCS/LCSdup RPD within QC limits).
		6/2/2005	8 - 8.5	N	PCB (8082)	Z541	MS/MSD RPD for Aroclor-1016 & Aroclor-1260 are biased high.
		6/2/2005	8 - 8.5	N	Petroleum Hydrocarbons (418.1)	Z541	None
		6/2/2005	8 - 8.5	N	Select Metals (6010B)	Z541	Cd and Ni SDup RPDs outside QC limits. Poor precision attributed to non homo samp (LCS/LCSdup RPD within QC limits). Sb, Be, Cu and Zn MSR outside QC limits. QC failure attributed to matrix interference (LCS/BSR within QC limits).
A0108.D	638637	6/2/2005	8 - 8.5	N	Volatile Organics (8260B)	Z541	None
		6/2/2005	8 - 8.5	Y	Base-Neutral Organics/PAHs (8270C)	Z541	None
		6/2/2005	8 - 8.5	Y	Mercury, Solid Waste (7471A)	Z541	Hg Samp Dup RPD(s) outside QC limits. Poor precision attributed to non homogeneous sample (LCS/LCSdup RPD within QC limits).
		6/2/2005	8 - 8.5	Y	PCB (8082)	Z541	MS/MSD RPD for Aroclor-1016 & Aroclor-1260 are biased high.
		6/2/2005	8 - 8.5	Y	Petroleum Hydrocarbons (418.1)	Z541	None
A0119.5	638638	6/2/2005	8 - 8.5	Y	Select Metals (6010B)	Z541	Cd and Ni SDup RPDs outside QC limits. Poor precision attributed to non homo samp (LCS/LCSdup RPD within QC limits). Sb, Be, Cu and Zn MSR outside QC limits. QC failure attributed to matrix interference (LCS/BSR within QC limits).
		6/2/2005	8 - 8.5	Y	Volatile Organics (8260B)	Z541	None
		6/2/2005	19.5 - 20	N	Base-Neutral Organics/PAHs (8270C)	Z541	None

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A0119.5	638638	6/2/2005	19.5 - 20	N	Mercury, Solid Waste (7471A)	Z541	Hg Samp Dup RPD(s) outside QC limits. Poor precision attributed to non homogeneous sample (LCS/LCSdup RPD within QC limits).
		6/2/2005	19.5 - 20	N	PCB (8082)	Z541	MS/MSD RPD for Aroclor-1016 & Aroclor-1260 are biased high.
		6/2/2005	19.5 - 20	N	Petroleum Hydrocarbons (418.1)	Z541	None
		6/2/2005	19.5 - 20	N	Select Metals (6010B)	Z541	Cd and Ni SDup RPDs outside QC limits. Poor precision attributed to non homo samp (LCS/LCSdup RPD within QC limits). Sb, Be, Cu and Zn MSR outside QC limits. QC failure attributed to matrix interference (LCS/BSR within QC limits).
		6/2/2005	19.5 - 20	N	Volatile Organics (8260B)	Z541	None
A1034.0	638639	6/2/2005	34 - 34.5	N	Base-Neutral Organics/PAHs (8270C)	Z541	None
		6/2/2005	34 - 34.5	N	Mercury, Solid Waste (7471A)	Z541	Hg Samp Dup RPD(s) outside QC limits. Poor precision attributed to non homogeneous sample (LCS/LCSdup RPD within QC limits).
		6/2/2005	34 - 34.5	N	PCB (8082)	Z541	MS/MSD RPD for Aroclor-1016 & Aroclor-1260 are biased high.
		6/2/2005	34 - 34.5	N	Petroleum Hydrocarbons (418.1)	Z541	None
		6/2/2005	34 - 34.5	N	Select Metals (6010B)	Z541	Cd and Ni SDup RPDs outside QC limits. Poor precision attributed to non homo samp (LCS/LCSdup RPD within QC limits). Sb, Be, Cu and Zn MSR outside QC limits. QC failure attributed to matrix interference (LCS/BSR within QC limits).
A1047.0	638640	6/2/2005	34 - 34.5	N	Volatile Organics (8260B)	Z541	None
		6/2/2005	47 - 47.5	N	Base-Neutral Organics/PAHs (8270C)	Z541	None
		6/2/2005	47 - 47.5	N	Mercury, Solid Waste (7471A)	Z541	Hg Samp Dup RPD(s) outside QC limits. Poor precision attributed to non homogeneous sample (LCS/LCSdup RPD within QC limits).
		6/2/2005	47 - 47.5	N	PCB (8082)	Z541	MS/MSD RPD for Aroclor-1016 & Aroclor-1260 are biased high.
		6/2/2005	47 - 47.5	N	Petroleum Hydrocarbons (418.1)	Z541	None
A2126.0	638641	6/2/2005	47 - 47.5	N	Select Metals (6010B)	Z541	Cd and Ni SDup RPDs outside QC limits. Poor precision attributed to non homo samp (LCS/LCSdup RPD within QC limits). Sb, Be, Cu and Zn MSR outside QC limits. QC failure attributed to matrix interference (LCS/BSR within QC limits).
		6/2/2005	47 - 47.5	N	Volatile Organics (8260B)	Z541	None
		6/2/2005	26 - 26.5	N	Base-Neutral Organics/PAHs (8270C)	Z541	None
		6/2/2005	26 - 26.5	N	Mercury, Solid Waste (7471A)	Z541	Hg Samp Dup RPD(s) outside QC limits. Poor precision attributed to non homogeneous sample (LCS/LCSdup RPD within QC limits).

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Sample ID	Lab ID	Date	Depth	Dup	Analysis (Method)	Lab Job #	Nonconformance
A2126.0	638641	6/2/2005	26 - 26.5	N	PCB (8082)	Z541	MS/MSD RPD for Aroclor-1016 & Aroclor-1260 are biased high.
		6/2/2005	26 - 26.5	N	Petroleum Hydrocarbons (418.1)	Z541	None
		6/2/2005	26 - 26.5	N	Select Metals (6010B)	Z541	Cd and Ni SDup RPDs outside QC limits. Poor precision attributed to non homo samp (LCS/LCSdup RPD within QC limits). Sb, Be, Cu and Zn MSR outside QC limits. QC failure attributed to matrix interference (LCS/BSR within QC limits).
A2137.5	638642	6/2/2005	26 - 26.5	N	Volatile Organics (8260B)	Z541	None
		6/2/2005	37.5 - 38	N	Base-Neutral Organics/PAHs (8270C)	Z541	None
		6/2/2005	37.5 - 38	N	Mercury, Solid Waste (7471A)	Z541	Hg Samp Dup RPD(s) outside QC limits. Poor precision attributed to non homogeneous sample (LCS/LCSdup RPD within QC limits).
		6/2/2005	37.5 - 38	N	PCB (8082)	Z541	MS/MSD RPD for Aroclor-1016 & Aroclor-1260 are biased high.
		6/2/2005	37.5 - 38	N	Petroleum Hydrocarbons (418.1)	Z541	None
		6/2/2005	37.5 - 38	N	Select Metals (6010B)	Z541	Cd and Ni SDup RPDs outside QC limits. Poor precision attributed to non homo samp (LCS/LCSdup RPD within QC limits). Sb, Be, Cu and Zn MSR outside QC limits. QC failure attributed to matrix interference (LCS/BSR within QC limits).
A2217.5	638643	6/2/2005	37.5 - 38	N	Volatile Organics (8260B)	Z541	None
		6/2/2005	17.5 - 18	N	Base-Neutral Organics/PAHs (8270C)	Z541	None
		6/2/2005	17.5 - 18	N	Mercury, Solid Waste (7471A)	Z541	Hg Samp Dup RPD(s) outside QC limits. Poor precision attributed to non homogeneous sample (LCS/LCSdup RPD within QC limits).
		6/2/2005	17.5 - 18	N	PCB (8082)	Z541	MS/MSD RPD for Aroclor-1016 & Aroclor-1260 are biased high.
		6/2/2005	17.5 - 18	N	Petroleum Hydrocarbons (418.1)	Z541	None
		6/2/2005	17.5 - 18	N	Select Metals (6010B)	Z541	Cd and Ni SDup RPDs outside QC limits. Poor precision attributed to non homo samp (LCS/LCSdup RPD within QC limits). Sb, Be, Cu and Zn MSR outside QC limits. QC failure attributed to matrix interference (LCS/BSR within QC limits).
A2230.5	638644	6/2/2005	17.5 - 18	N	Volatile Organics (8260B)	Z541	None
		6/2/2005	30.5 - 31	N	Base-Neutral Organics/PAHs (8270C)	Z541	None
		6/2/2005	30.5 - 31	N	Mercury, Solid Waste (7471A)	Z541	Hg Samp Dup RPD(s) outside QC limits. Poor precision attributed to non homogeneous sample (LCS/LCSdup RPD within QC limits).
		6/2/2005	30.5 - 31	N	PCB (8082)	Z541	MS/MSD RPD for Aroclor-1016 & Aroclor-1260 are biased high.

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Sample ID	Lab ID	Date	Depth	Dup	Analysis (Method)	Lab Job #	Nonconformance
A2230.5	638644	6/2/2005	30.5 - 31	N	Petroleum Hydrocarbons (418.1)	Z541	None
		6/2/2005	30.5 - 31	N	Select Metals (6010B)	Z541	Cd and Ni SDup RPDs outside QC limits. Poor precision attributed to non homo samp (LCS/LCSdup RPD within QC limits). Sb, Be, Cu and Zn MSR outside QC limits. QC failure attributed to matrix interference (LCS/BSR within QC limits).
		6/2/2005	30.5 - 31	N	Volatile Organics (8260B)	Z541	None
D1316.5	638645	6/2/2005	16.5 - 17	N	Base-Neutral Organics/PAHs (8270C)	Z542	None
		6/2/2005	16.5 - 17	N	Mercury, Solid Waste (7471A)	Z542	Hg SDup RPDs outside QC limits. Poor precision attributed to non homo samp (LCS/LCSdup RPD are within QC limits).
		6/2/2005	16.5 - 17	N	PCB (8082)	Z542	MS/MSD RPD for Aroclor-1016 & Aroclor-1260 are biased high.
		6/2/2005	16.5 - 17	N	Petroleum Hydrocarbons (418.1)	Z542	None
		6/2/2005	16.5 - 17	N	Select Metals (6010B)	Z542	Cd and Ni SDup RPDs outside QC limits. Poor precision attributed to non homo samp (LCS/LCSdup RPD are within QC limits). Sb, Be, Cu and Zn MSR outside QC limits. QC failure attributed to matrix interference (LCS/BSR are within QC limits).
		6/2/2005	16.5 - 17	N	Volatile Organics (8260B)	Z542	None
D1321.0	638646	6/2/2005	21 - 21.5	N	Base-Neutral Organics/PAHs (8270C)	Z542	None
		6/2/2005	21 - 21.5	N	Mercury, Solid Waste (7471A)	Z542	Hg SDup RPDs outside QC limits. Poor precision attributed to non homo samp (LCS/LCSdup RPD are within QC limits).
		6/2/2005	21 - 21.5	N	PCB (8082)	Z542	MS/MSD RPD for Aroclor-1016 & Aroclor-1260 are biased high.
		6/2/2005	21 - 21.5	N	Petroleum Hydrocarbons (418.1)	Z542	None
		6/2/2005	21 - 21.5	N	Select Metals (6010B)	Z542	Cd and Ni SDup RPDs outside QC limits. Poor precision attributed to non homo samp (LCS/LCSdup RPD are within QC limits). Sb, Be, Cu and Zn MSR outside QC limits. QC failure attributed to matrix interference (LCS/BSR are within QC limits).
		6/2/2005	21 - 21.5	N	Volatile Organics (8260B)	Z542	None
D1322.5	638647	6/2/2005	22.5 - 23	N	Base-Neutral Organics/PAHs (8270C)	Z542	None
		6/2/2005	22.5 - 23	N	Mercury, Solid Waste (7471A)	Z542	Hg SDup RPDs outside QC limits. Poor precision attributed to non homo samp (LCS/LCSdup RPD are within QC limits).
		6/2/2005	22.5 - 23	N	PCB (8082)	Z542	MS/MSD RPD for Aroclor-1016 & Aroclor-1260 are biased high.
		6/2/2005	22.5 - 23	N	Petroleum Hydrocarbons (418.1)	Z542	None

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Sample ID	Lab ID	Date	Depth	Dup	Analysis (Method)	Lab Job #	Nonconformance
D1322.5	638647	6/2/2005	22.5 - 23	N	Select Metals (6010B)	Z542	Cd and Ni SDup RPDs outside QC limits. Poor precision attributed to non homo samp (LCS/LCSdup RPD are within QC limits). Sb, Be, Cu and Zn MSR outside QC limits. QC failure attributed to matrix interference (LCS/BSR are within QC limits).
D1329.0	638648	6/2/2005	22.5 - 23	N	Volatile Organics (8260B)	Z542	None
		6/2/2005	29 - 29.5	N	Base-Neutral Organics/PAHs (8270C)	Z542	None
		6/2/2005	29 - 29.5	N	Mercury, Solid Waste (7471A)	Z542	Hg SDup RPDs outside QC limits. Poor precision attributed to non homo samp (LCS/LCSdup RPD are within QC limits).
		6/2/2005	29 - 29.5	N	PCB (8082)	Z542	MS/MSD RPD for Aroclor-1016 & Aroclor-1260 are biased high.
		6/2/2005	29 - 29.5	N	Petroleum Hydrocarbons (418.1)	Z542	None
		6/2/2005	29 - 29.5	N	Select Metals (6010B)	Z542	Cd and Ni SDup RPDs outside QC limits. Poor precision attributed to non homo samp (LCS/LCSdup RPD are within QC limits). Sb, Be, Cu and Zn MSR outside QC limits. QC failure attributed to matrix interference (LCS/BSR are within QC limits).
F060205	638649	6/2/2005	29 - 29.5	N	Volatile Organics (8260B)	Z542	None
		6/2/2005	0 - 0	N	Base-Neutral Organics/PAH (Aqueous) (625)	Z542	BS % recovery of 3,3-Dichlorobenzidine is biased high.
		6/2/2005	0 - 0	N	Mercury, Liquid Waste (7470A)	Z542	Hg SDup RPDs outside QC limits. Poor precision attributed to non homo samp (LCS/LCSdup RPD are within QC limits).
		6/2/2005	0 - 0	N	PCB (Aqueous) (608)	Z542	None
		6/2/2005	0 - 0	N	Petroleum Hydrocarbons (418.1)	Z542	None
		6/2/2005	0 - 0	N	Select Metals (6010B)	Z542	Cd and Ni SDup RPDs outside QC limits. Poor precision attributed to non homo samp (LCS/LCSdup RPD are within QC limits). Sb, Be, Cu and Zn MSR outside QC limits. QC failure attributed to matrix interference (LCS/BSR are within QC limits).
D1016.5	639314	6/2/2005	0 - 0	N	Volatile Organics (Aqueous) (624)	Z542	None
		6/3/2005	16.5 - 17	N	Base-Neutral Organics/PAHs (8270C)	Z674	None
		6/3/2005	16.5 - 17	N	Mercury, Solid Waste (7471A)	Z674	Sb MS recovery is outside Q.C.limits Q.C. Failure attributed to MI (LCS/Blank spike recoveries are within Q.C.limits)
		6/3/2005	16.5 - 17	N	PCB (8082)	Z674	None
		6/3/2005	16.5 - 17	N	Petroleum Hydrocarbons (418.1)	Z674	None
		6/3/2005	16.5 - 17	N	Select Metals (6010B)	Z674	Sb MS recovery is outside Q.C.limits Q.C. Failure attributed to MI (LCS/Blank spike recoveries are within Q.C.limits)

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D1016.5	639314	6/3/2005	16.5 - 17	N	Volatile Organics (8260B)	Z674	None
D1021.0	639315	6/3/2005	21 - 21.5	N	Base-Neutral Organics/PAHs (8270C)	Z674	IS- Perylene-d12 internal standards is <50% of the most recent continuing calibration standard area. Sample extracts were reanalyzed confirming MI
		6/3/2005	21 - 21.5	N	Mercury, Solid Waste (7471A)	Z674	Sb MS recovery is outside Q.C.limits Q.C. Failure attributed to MI (LCS/Blank spike recoveries are within Q.C.limits)
		6/3/2005	21 - 21.5	N	PCB (8082)	Z674	None
		6/3/2005	21 - 21.5	N	Petroleum Hydrocarbons (418.1)	Z674	None
		6/3/2005	21 - 21.5	N	Select Metals (6010B)	Z674	Sb MS recovery is outside Q.C.limits Q.C. Failure attributed to MI (LCS/Blank spike recoveries are within Q.C.limits)
		6/3/2005	21 - 21.5	N	Volatile Organics (8260B)	Z674	None
D1022.5	639316	6/3/2005	22.5 - 23	N	Base-Neutral Organics/PAHs (8270C)	Z674	IS- Perylene-d12 internal standards is <50% of the most recent continuing calibration standard area. Sample extracts were reanalyzed confirming MI
		6/3/2005	22.5 - 23	N	Mercury, Solid Waste (7471A)	Z674	Sb MS recovery is outside Q.C.limits Q.C. Failure attributed to MI (LCS/Blank spike recoveries are within Q.C.limits)
		6/3/2005	22.5 - 23	N	PCB (8082)	Z674	None
		6/3/2005	22.5 - 23	N	Petroleum Hydrocarbons (418.1)	Z674	None
		6/3/2005	22.5 - 23	N	Select Metals (6010B)	Z674	Sb MS recovery is outside Q.C.limits Q.C. Failure attributed to MI (LCS/Blank spike recoveries are within Q.C.limits)
		6/3/2005	22.5 - 23	N	Volatile Organics (8260B)	Z674	None
D1030.5	639317	6/3/2005	30.5 - 31	N	Base-Neutral Organics/PAHs (8270C)	Z674	None
		6/3/2005	30.5 - 31	N	Mercury, Solid Waste (7471A)	Z674	Sb MS recovery is outside Q.C.limits Q.C. Failure attributed to MI (LCS/Blank spike recoveries are within Q.C.limits)
		6/3/2005	30.5 - 31	N	PCB (8082)	Z674	None
		6/3/2005	30.5 - 31	N	Petroleum Hydrocarbons (418.1)	Z674	None
		6/3/2005	30.5 - 31	N	Select Metals (6010B)	Z674	Sb MS recovery is outside Q.C.limits Q.C. Failure attributed to MI (LCS/Blank spike recoveries are within Q.C.limits)
		6/3/2005	30.5 - 31	N	Volatile Organics (8260B)	Z674	None
D1031.5	639318	6/3/2005	31.5 - 32	N	Base-Neutral Organics/PAHs (8270C)	Z674	None

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D1031.5	639318	6/3/2005	31.5 - 32	N	Mercury, Solid Waste (7471A)	Z674	Sb MS recovery is outside Q.C.limits Q.C. Failure attributed to MI (LCS/Blank spike recoveries are within Q.C.limits)
		6/3/2005	31.5 - 32	N	PCB (8082)	Z674	None
		6/3/2005	31.5 - 32	N	Petroleum Hydrocarbons (418.1)	Z674	None
		6/3/2005	31.5 - 32	N	Select Metals (6010B)	Z674	Sb MS recovery is outside Q.C.limits Q.C. Failure attributed to MI (LCS/Blank spike recoveries are within Q.C.limits)
		6/3/2005	31.5 - 32	N	Volatile Organics (8260B)	Z674	None
D1419.5	639319	6/3/2005	19.5 - 20	N	Base-Neutral Organics/PAHs (8270C)	Z674	None
		6/3/2005	19.5 - 20	N	Mercury, Solid Waste (7471A)	Z674	Sb MS recovery is outside Q.C.limits Q.C. Failure attributed to MI (LCS/Blank spike recoveries are within Q.C.limits)
		6/3/2005	19.5 - 20	N	PCB (8082)	Z674	None
		6/3/2005	19.5 - 20	N	Petroleum Hydrocarbons (418.1)	Z674	None
		6/3/2005	19.5 - 20	N	Select Metals (6010B)	Z674	Sb MS recovery is outside Q.C.limits Q.C. Failure attributed to MI (LCS/Blank spike recoveries are within Q.C.limits)
A2016.5	639320	6/3/2005	19.5 - 20	N	Volatile Organics (8260B)	Z674	None
		6/3/2005	16.5 - 17	N	Base-Neutral Organics/PAHs (8270C)	Z674	None
		6/3/2005	16.5 - 17	N	Mercury, Solid Waste (7471A)	Z674	Sb MS recovery is outside Q.C.limits Q.C. Failure attributed to MI (LCS/Blank spike recoveries are within Q.C.limits)
		6/3/2005	16.5 - 17	N	PCB (8082)	Z674	None
		6/3/2005	16.5 - 17	N	Petroleum Hydrocarbons (418.1)	Z674	None
A2030.5	639321	6/3/2005	16.5 - 17	N	Select Metals (6010B)	Z674	Sb MS recovery is outside Q.C.limits Q.C. Failure attributed to MI (LCS/Blank spike recoveries are within Q.C.limits)
		6/3/2005	16.5 - 17	N	Volatile Organics (8260B)	Z674	None
		6/3/2005	30.5 - 31	N	Base-Neutral Organics/PAHs (8270C)	Z674	None
		6/3/2005	30.5 - 31	N	Mercury, Solid Waste (7471A)	Z674	Sb MS recovery is outside Q.C.limits Q.C. Failure attributed to MI (LCS/Blank spike recoveries are within Q.C.limits)
		6/3/2005	30.5 - 31	N	PCB (8082)	Z674	None
		6/3/2005	30.5 - 31	N	Petroleum Hydrocarbons (418.1)	Z674	None
		6/3/2005	30.5 - 31	N	Select Metals (6010B)	Z674	Sb MS recovery is outside Q.C.limits Q.C. Failure attributed to MI (LCS/Blank spike recoveries are within Q.C.limits)

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Sample ID	Lab ID	Date	Depth	Dup	Analysis (Method)	Lab Job #	Nonconformance
A2030.5	639321	6/3/2005	30.5 - 31	N	Volatile Organics (8260B)	Z674	None
A0511.5	639322	6/3/2005	11.5 - 12	N	Base-Neutral Organics/PAHs (8270C)	Z674	None
		6/3/2005	11.5 - 12	N	Mercury, Solid Waste (7471A)	Z674	Sb MS recovery is outside Q.C.limits Q.C. Failure attributed to MI (LCS/Blank spike recoveries are within Q.C.limits)
		6/3/2005	11.5 - 12	N	PCB (8082)	Z674	None
		6/3/2005	11.5 - 12	N	Petroleum Hydrocarbons (418.1)	Z674	None
		6/3/2005	11.5 - 12	N	Select Metals (6010B)	Z674	Sb MS recovery is outside Q.C.limits Q.C. Failure attributed to MI (LCS/Blank spike recoveries are within Q.C.limits)
		6/3/2005	11.5 - 12	N	Volatile Organics (8260B)	Z674	None
A0523.5	639323	6/3/2005	23.5 - 24	N	Base-Neutral Organics/PAHs (8270C)	Z674	None
		6/3/2005	23.5 - 24	N	Mercury, Solid Waste (7471A)	Z674	Sb MS recovery is outside Q.C.limits Q.C. Failure attributed to MI (LCS/Blank spike recoveries are within Q.C.limits)
		6/3/2005	23.5 - 24	N	PCB (8082)	Z674	None
		6/3/2005	23.5 - 24	N	Petroleum Hydrocarbons (418.1)	Z674	None
		6/3/2005	23.5 - 24	N	Select Metals (6010B)	Z674	Sb MS recovery is outside Q.C.limits Q.C. Failure attributed to MI (LCS/Blank spike recoveries are within Q.C.limits)
		6/3/2005	23.5 - 24	N	Volatile Organics (8260B)	Z674	None
D1521.5	639324	6/3/2005	21.5 - 22	N	Base-Neutral Organics/PAHs (8270C)	Z674	IS- Perylene-d12 internal standards is <50% of the most recent continuing calibration standard area. MS/MSD confirms MI
		6/3/2005	21.5 - 22	N	Mercury, Solid Waste (7471A)	Z674	Sb MS recovery is outside Q.C.limits Q.C. Failure attributed to MI (LCS/Blank spike recoveries are within Q.C.limits)
		6/3/2005	21.5 - 22	N	PCB (8082)	Z674	None
		6/3/2005	21.5 - 22	N	Petroleum Hydrocarbons (418.1)	Z674	None
		6/3/2005	21.5 - 22	N	Select Metals (6010B)	Z674	Sb MS recovery is outside Q.C.limits Q.C. Failure attributed to MI (LCS/Blank spike recoveries are within Q.C.limits)
		6/3/2005	21.5 - 22	N	Volatile Organics (8260B)	Z674	None
F060305	639397	6/3/2005	0 - 0	N	Base-Neutral Organics/PAH (Aqueous) (625)	Z687	MS%recoveries of 2-Chlorophenol and Hexachlorobutadiene are biased high(blank spike recoveries are within QC limits)
		6/3/2005	0 - 0	N	Mercury, Liquid Waste (7470A)	Z687	None
		6/3/2005	0 - 0	N	PCB (Aqueous) (608)	Z687	None

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Sample ID	Lab ID	Date	Depth	Dup	Analysis (Method)	Lab Job #	Nonconformance
F060305	639397	6/3/2005	0 - 0	N	Petroleum Hydrocarbons (418.1)	Z687	None
		6/3/2005	0 - 0	N	Select Metals (6010B)	Z687	SB, Selenim and Zn MS recoveries are outside Q.C.limits. Q.C failure attributed to MS (LCS/Blank spike recoveries are within Q.C. limits).
		6/3/2005	0 - 0	N	Volatile Organics (Aqueous) (624)	Z687	None
D1600.0	639991	6/7/2005	0 - 0.5	N	Base-Neutral Organics/PAHs (8270C)	Z807	MS/MSD RPD of pentachlorophenol is biased high.
		6/7/2005	0 - 0.5	N	Mercury, Solid Waste (7471A)	Z807	Hg SampleDup RPDs are outside QClimits.Poor precision attributed to non homo sample(LCS/LCSdup RPD are within QClimits).Hg MS recoveries are outside QClimits. QCfail attributed to MI(LCS/Blank spike recoveries are within QClimits)
		6/7/2005	0 - 0.5	N	PCB (8082)	Z807	None
		6/7/2005	0 - 0.5	N	Petroleum Hydrocarbons (418.1)	Z807	None
		6/7/2005	0 - 0.5	N	Select Metals (6010B)	Z807	Pb SampleDup RPDs are outside QClimits.Poor precision attributed to non homo sample(LCS/LCSdup RPD are within QClimits).Sb, Zn MS recoveries are outside QClimits. QCfail attributed to MI(LCS/Blank spike recoveries are within QClimits)
		6/7/2005	0 - 0.5	N	Volatile Organics (8260B)	Z807	None
D1604.0	639992	6/7/2005	4 - 4.5	N	Base-Neutral Organics/PAHs (8270C)	Z807	MS/MSD RPD of pentachlorophenol is biased high.
		6/7/2005	4 - 4.5	N	Mercury, Solid Waste (7471A)	Z807	Hg SampleDup RPDs are outside QClimits.Poor precision attributed to non homo sample(LCS/LCSdup RPD are within Qclimits).Hg MS recoveries are outside QClimits. QCfail attributed to MI(LCS/Blank spike recoveries are within QClimits)
		6/7/2005	4 - 4.5	N	PCB (8082)	Z807	None
		6/7/2005	4 - 4.5	N	Petroleum Hydrocarbons (418.1)	Z807	None
		6/7/2005	4 - 4.5	N	Select Metals (6010B)	Z807	Pb SampleDup RPDs are outside QClimits.Poor precision attributed to non homo sample(LCS/LCSdup RPD are within Qclimits).Sb, Zn MS recoveries are outside QClimits. QCfail attributed to MI(LCS/Blank spike recoveries are within QClimits)
		6/7/2005	4 - 4.5	N	Volatile Organics (8260B)	Z807	None
D1700.0	639993	6/7/2005	0 - 0.5	N	Base-Neutral Organics/PAHs (8270C)	Z807	MS/MSD RPD of pentachlorophenol is biased high.
		6/7/2005	0 - 0.5	N	Mercury, Solid Waste (7471A)	Z807	Hg SampleDup RPDs are outside QClimits.Poor precision attributed to non homo sample(LCS/LCSdup RPD are within Qclimits).Hg MS recoveries are outside QClimits. QCfail attributed to MI(LCS/Blank spike recoveries are within QClimits)

NOTES:

All samples have a soil matrix unless otherwise indicated.

Column - Dup: Y=Duplicate, N=Not Duplicate

See hardcopy Laboratory Data Reports for detailed information regarding nonconformances, including acronym definitions.

APPENDIX D
LABORATORY SAMPLE INDEX
Main Facility Area SI/RI/RAW
Former Ingersoll-Rand Facility - Phillipsburg, New Jersey

Sample ID	Lab ID	Date	Depth	Dup	Analysis (Method)	Lab Job #	Nonconformance
D1700.0	639993	6/7/2005	0 - 0.5	N	PCB (8082)	Z807	None
		6/7/2005	0 - 0.5	N	Petroleum Hydrocarbons (418.1)	Z807	None
		6/7/2005	0 - 0.5	N	Select Metals (6010B)	Z807	Pb SampleDup RPDs are outside QClimits.Poor precision attributed to non homo sample(LCS/LCSdup RPD are within Qclimits).Sb, Zn MS recoveries are outside QClimits. QCfail attributed to MI(LCS/Blank spike recoveries are within QClimits)
		6/7/2005	0 - 0.5	N	Volatile Organics (8260B)	Z807	None
D1704.0	639994	6/7/2005	4 - 4.5	N	Base-Neutral Organics/PAHs (8270C)	Z807	MS/MSD RPD of pentachlorophenol is biased high.
		6/7/2005	4 - 4.5	N	Mercury, Solid Waste (7471A)	Z807	Hg SampleDup RPDs are outside QClimits.Poor precision attributed to non homo sample(LCS/LCSdup RPD are within Qclimits).Hg MS recoveries are outside QClimits. QCfail attributed to MI(LCS/Blank spike recoveries are within QClimits)
		6/7/2005	4 - 4.5	N	PCB (8082)	Z807	None
		6/7/2005	4 - 4.5	N	Petroleum Hydrocarbons (418.1)	Z807	None
		6/7/2005	4 - 4.5	N	Select Metals (6010B)	Z807	Pb SampleDup RPDs are outside QClimits.Poor precision attributed to non homo sample(LCS/LCSdup RPD are within Qclimits).Sb, Zn MS recoveries are outside QClimits. QCfail attributed to MI(LCS/Blank spike recoveries are within QClimits)
		6/7/2005	4 - 4.5	N	Volatile Organics (8260B)	Z807	None
F060705	639997	6/7/2005	0 - 0	N	Base-Neutral Organics/PAH (Aqueous) (625)	Z807	BS%recovery of 3,3-dichlorobenzidine is biased high.
		6/7/2005	0 - 0	N	Mercury, Liquid Waste (7470A)	Z807	Hg SampleDup RPDs are outside QClimits.Poor precision attributed to non homo sample(LCS/LCSdup RPD are within Qclimits).Hg MS recoveries are outside QClimits. QCfail attributed to MI(LCS/Blank spike recoveries are within QClimits)
		6/7/2005	0 - 0	N	PCB (Aqueous) (608)	Z807	None
		6/7/2005	0 - 0	N	Petroleum Hydrocarbons (418.1)	Z807	None
		6/7/2005	0 - 0	N	Select Metals (6010B)	Z807	Pb SampleDup RPDs are outside QClimits.Poor precision attributed to non homo sample(LCS/LCSdup RPD are within Qclimits).Sb, Zn MS recoveries are outside QClimits. QCfail attributed to MI(LCS/Blank spike recoveries are within QClimits)
		6/7/2005	0 - 0	N	Volatile Organics (Aqueous) (624)	Z807	MS%recovery of TCE is outside QClimits(sample amount is too high for spike level)BlankSpike meets allQClimits.

NOTES:

All samples have a soil matrix unless otherwise indicated.

Column - Dup: Y=Duplicate, N=Not Duplicate

See hardcopy Laboratory Data Reports for detailed information regarding nonconformances, including acronym definitions.

APPENDIX E

Preliminary Vapor Intrusion (VI)/Indoor Air Quality (IAQ) Study

**Ingersoll Rand Company
Montvale, New Jersey**

APPENDIX E



**Initial Vapor Intrusion/Indoor Air
Quality Study – Lot 7.03 of the
Former Ingersoll Rand Co. Facility –
Phillipsburg, New Jersey**

**Electronic Document
Text, Tables, Figures and
Attachments**

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- Attachment 2 *Report of Indoor Air Quality Testing*, May 10, 2005, RT Environmental Services, Inc.
- Attachment 3 NJDEP Indoor Air Building Survey & Sampling Forms
- Attachment 4 NJDEP Instructions for Occupants – Indoor Sampling Events
- Attachment 5 Laboratory Analytical Data Package– June 4 and 5, 2005

1.0 INTRODUCTION

On behalf of Ingersoll-Rand Company (IR), ENSR Corporation (ENSR) performed a Initial Vapor Intrusion (VI)/Indoor Air Quality (IAQ) Study at buildings located in the Main Facility Area of the former IR facility in Phillipsburg, NJ to assess whether the presence of light non-aqueous phase liquids (LNAPL) and volatile organic compounds (VOCs) in site soils and groundwater may be impacting IAQ at the facility buildings. This study was developed in response to verbal concerns that NJDEP expressed during a 2004 site walk regarding VI.

As discussed in the Site Investigation/Remedial Investigation/Remedial Action Workplan for the Main Facility Area (Main Facility SI/RI/RAW), IR sold their former property in September 2004 to Preferred Real Estate Investments (PREI) d/b/a Phillipsburg Associates, LP; Phillipsburg Associates I, LP; Phillipsburg Associates II, LP; and Phillipsburg Associates III, LP. To accommodate proposed development at the site, IR has performed extensive environmental investigations and remedial measures to facilitate the pending redevelopment of portions of the former property including the Main Facility Area. Several of the buildings in which air samples were collected as part of this study are currently leased or under agreement for lease. Operations within these structures include pump manufacturing and research and development conducted by Curtiss Wright and Flow Serve; steel fabrication conducted by Stateline Fabricators; and miscellaneous storage by Phillipsburg Associates. Some of the structures are vacant.

As discussed in the Main Facility SI/RI/RAW, LNAPL has been identified on the groundwater surface in portions of the Main Facility Area and total petroleum hydrocarbons (TPHC) concentrations in soil exceed 10,000 milligram-per-kilogram (mg/kg) in several locations. Chlorinated volatile organic compounds (CVOCs), specifically tetrachloroethylene (PCE) and trichloroethylene (TCE) are also present in soil at concentrations exceeding applicable soil criteria. These and other CVOCs, as well as their degradation compounds have also been identified in groundwater in site monitoring wells. Ongoing remedial actions at the site are currently addressing LNAPL via a groundwater and LNAPL recovery system. Investigative activities and semi-annual monitoring are ongoing to address the presence of CVOCs in groundwater. Current data suggest that a monitored natural attenuation approach could be viable for the CVOC compounds.

This VI/IAQ Study summarizes previous air quality reports by others (Section 3.0), and presents details of air sampling conducted by ENSR in June 2005 (Section 4.0). The June 2005 indoor air sampling was performed as a preliminary screening mechanism to evaluate potential VI/IAQ issues at the site. Locations selected for sampling in this event represented potential "worst case" areas based on the extent of LNAPL and CVOc impacts in groundwater. That is, sampling locations were selected to be over areas containing LNAPL and high TPHC in soil or groundwater impacted with CVOcs. The June 2005 sampling event involved collection of air samples over a 24-hour period from indoor air, analyzing each sample for a suite of VOCs and comparing the results to promulgated regulatory standards for industrial workplaces.

2.0 COMPARATIVE STANDARDS

The air quality data provided throughout this report have been compared to the United States Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PELs). A PEL is the maximum amount or concentration of a chemical to which a worker may be exposed under OSHA regulations. The PELs represent standards for air quality in workplaces where the compounds may be utilized as part of the industry practice. The OSHA PELs are the most appropriate standards for comparison in this study based upon the industrial operations which are present in and around the targeted buildings.

3.0 PREVIOUS AIR QUALITY INVESTIGATIONS

3.1 Air Quality Screening - Utility Subway

In 2004, a limited air quality screening was performed by ENSR in the utility subway which traverses the courtyard from north to south along the eastern edge of the Courtyard Area (see Figure 1 for the location of the subway). This subway is the main subsurface utility in the area targeted in this study. The depth to groundwater in this area is approximately 60 feet below ground surface (ft bgs) in bedrock, with top of bedrock between 10 and 30 ft bgs. Given the concentrations of CVOCs detected in the groundwater in this area and the depth to the groundwater, no impacts to subsurface structures were anticipated. However, for purposes of documenting the structural condition and in order to document the air quality within the subway, an inspection of the subway along with vapor monitoring was performed in 2004. During this structural inspection, measurement of oxygen levels, lower explosive limits, and the presence of organic vapors were included in this evaluation; all field screening results were well within acceptable background levels, indicating a lack of vapor hazards in the subway.

3.2 Previous Indoor Air Quality Investigations

Prior to the most recent indoor air quality sampling performed by ENSR, two previous reports were prepared by other firms that presented the results of indoor air sampling at various locations within buildings at the former IR facility. These reports, both conducted in 2005, included a Limited Indoor Air Assessment (LIAA), by Sovereign Environmental Group (Sovereign), and a Report of Indoor Air Quality Testing (RIAQT), by RT Environmental Services, Inc. (RT).

3.2.1 Limited Indoor Air Assessment Report – Sovereign Environmental Group

The LIAA, dated May 5, 2005, is provided as Attachment 1. A summary of the sampling activities and results are provided below.

3.2.1.1 Air Sampling Methodology

Sovereign performed an assessment of indoor air quality in Building #9 and Building #34, located in the southern end of the Main Facility Area, to determine the potential impacts of certain CVOCs, specifically PCE, TCE, 1,1-dichloroethylene (1,1-DCE), and vinyl chloride (VC). Building #9 and Building #34 are contiguous buildings that were vacant during the time of sampling. Sovereign collected indoor air samples on April 27, 2005 from both buildings, as follows:

- In order to evaluate concentrations of targeted VOCs, Sovereign collected a total of eight indoor air samples utilizing charcoal tubes (for PCE, TCE, and 1,1-DCE) and Anasorb CMS

sampling tubes (for vinyl chloride). These samples were collected and analyzed via National Institute for Occupational Safety and Health (NIOSH) Methods 1003 and 1022, and OSHA Method 75, respectively.

- In order to evaluate concentrations of non-targeted VOCs, Sovereign collected samples from seven of the eight tube-sample locations by adsorption onto passive sampling badges. These samples were collected and analyzed via OSHA Methods 7 and 69, and analyzed via gas chromatograph and flame ionization detector (GC/FID).

Sample locations are presented on a hand-drawn sketch included in the LIAA.

3.2.1.2 Results

The analytical results of Sovereign's sampling event are provided in Table 2 of their report. Table 2 indicates that no VOCs were detected at the laboratory detection limits. The results were reported ranging from "not detected" to less than 6 parts-per-million (ppm). The OSHA PEL was provided as a comparative standard for each targeted VOC, and all results were below the PELs.

3.2.2 Report of Indoor Air Quality Testing – RT Environmental Services, Inc.

The RIAQT, dated May 10, 2005, is provided as Attachment 2. A summary of the sampling activities and results is provided below.

3.2.2.1 Air Sampling Methodology

RT performed indoor air sampling on the fourth floor of Building #20 on May 1 and 2, 2005, to evaluate VOC and radon concentrations in that specific area. Building #20 is a four-story structure located in the western portion of the Main Facility Area, and serves primarily as office space. Since radon is not the subject of this VI/IAQ Study, radon sampling and analysis is not discussed herein.

RT collected a total of two indoor air samples. Although sampling methodology was not specifically discussed in the report, sampling appears to have been conducted utilizing Summa™ canisters. These samples were analyzed via USEPA Method TO-15 by a NJ-certified laboratory. Sample locations are presented on a hand-drawn sketch in Attachment 1 of the RIAQT. According to the Chain of Custody, each sample was collected over a 14-hour, 40-minute time period. The heating/ventilation and air conditioning (HVAC) system was reportedly shut down 24 hours in advance of testing.

It is unknown whether the samples were collected from the breathing zone height, whether any building surveys were completed to evaluate potential indoor sources, or collect other relevant

information such as building characteristics, tenant operations, or weather. No background samples were reported to have been collected.

3.2.2.2 Results

A summary of the laboratory data is provided in Table 1 of the RIAQT (which provides results for any compound which was detected above the laboratory reporting limit in any sample) and the laboratory summary sheets for the sampling event were provided in Attachment 2 of the report. The sampling results indicate that 13 compounds were detected above laboratory reporting limits. Of these 13, no compounds were detected at or above OSHA PELs.¹

¹ Note that RT's Table 1 (which includes the data duplicated from EMSL Laboratories' data summary sheet) appears to have misidentified a compound. Specifically, the compound with a Chemical Abstract Service (CAS) number 75-69-4 is trichlorofluoromethane, also called fluorotrichloromethane, or Freon 11. In Table 1 of their report, RT labeled the compound with the CAS number as trichlorotrifluoroethane. The CAS number for trichlorotrifluoroethane is 76-13-1 (not 75-69-4); it is assumed that the CAS number for the compound was correct and the name incorrect, since Method TO-15 does not typically include analysis for trichlorotrifluoroethane.

4.0 INDOOR AIR QUALITY SAMPLING EVENT- MAY/JUNE 2005

4.1 Methodology

On May 23 and 31, 2005 an ENSR representative performed site inspections to evaluate existing conditions on-site, select five indoor sampling locations and one outdoor background location, and to complete preliminary building survey forms for each sampling location. The buildings selected for sampling included Building #7, Building #8, Building #9, Building #13, and Building #24, as presented on Figure 1.

Indoor Air Building Survey & Sampling Forms (Survey Forms) were completed for each selected building on May 31, 2005 during an interview with Dave Zimmerman, the facility manager and employee at the site for many years. Mr. Zimmerman has extensive knowledge about the site, and building characteristics and operations. Copies of the completed Survey Forms are included as Attachment 3 of this report. Instructions for the indoor air sampling event were also discussed with and provided to Mr. Zimmerman on May 31, 2005. It should be noted that some of the buildings contain office spaces and active industrial/commercial businesses. Therefore, many of the "Instructions" were not implemented (which is detailed on the Survey Forms, where appropriate). In order to reduce the potential for indoor air sources affecting analytical results, the sampling was performed over a weekend (June 4 and 5, 2005) when the businesses were inactive.

Indoor air samples were collected at representative locations in each building using laboratory-certified clean 6-Liter Summa canisters. Analytical parameters included VOCs via USEPA Method TO-15. The samples were collected from the breathing zone height (3 to 5 feet above ground/floor surface). All samples were collected over an approximately 24-hour period. The clean canisters were fitted with laboratory-certified clean pre-set flow controllers to allow collection rates of 4 to 4.5-milliliters/minute (to obtain 24-hour composite samples). The samples were analyzed by ENSR Air Toxics Specialty Laboratory (ENSR ATSL), Harvard, Massachusetts (NJ Lab ID MA010).

All air samples were collected and analyzed in accordance with the Compendium Method TO-15 Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially Prepared Canisters and Analyzing by Gas Chromatography/Mass Spectrometry (GC/MS). The method is found in the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air (January 1999).

Sample locations are identified on Figure 1. The selected buildings, sample identification, and rationale for their inclusion in this sampling event include:

Building #	Sample ID	Rationale
13	IAQ-1-13	In proximity to CVOC and LNAPL in groundwater and impacted soil.
8	IAQ-2-8	In proximity to CVOC and LNAPL in groundwater and impacted soil.
7	IAQ-3-7	In proximity to CVOC and LNAPL in groundwater and impacted soil.
9	IAQ-4-9	In proximity to CVOC in groundwater.
24	IAQ-5-24	In proximity to area of LNAPL on groundwater.
Outside	IAQ-6-BG	Background sample / outside ambient air.

The locations within each building were selected based upon building layout, to collect representative samples from a general “area” as presented on Figure 1. This sampling event was performed as a preliminary screen of those buildings where VI concerns may exist due to proximity of a building to the LNAPL plume, or CVOC impacts. Figure 1 presents the estimated area of LNAPL impact in groundwater, based upon data collected to date.² Figure 5, Sheets 4 and 5, of the Main Facility SI/RI/RAW presents those locations targeted by this study with respect to CVOC impacts in soil. Note that one ambient (outdoor) air sample was collected concurrently with indoor air samples to assist in evaluating background compound concentrations.

The sample canisters were transported via FedEx to ENSR ATSL. The sample canisters were accompanied by a chain of custody form following the requirements of USEPA Method TO-15.

4.2 Results

A summary of the laboratory data is provided in Table 1 (which provides results for any compound which was detected above the laboratory reporting limit in any sample) and the complete analytical data package for this sampling event is provided as Attachment 5. The sampling results from the June 2005 event indicate that 20 compounds were detected above laboratory reporting limits. Concentrations of VOCs in samples collected from inside the buildings are higher than those detected in the background sample, IAQ-6-BG, which was collected from the area outside of Building #8. Of the

² A Groundwater Remedial Investigation Workplan will be submitted under separate cover to NJDEP in August 2005. This report will provide additional information regarding the groundwater and LNAPL investigation, including details regarding the extent of the LANPL plume.

20 compounds detected in samples collected from indoor and background locations, none were detected above OSHA PELs.

5.0 CONCLUSION

No compounds were detected at or above Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PELs) in any air sample collected in the June 2005 sampling event. The PEL is the maximum amount or concentration of a chemical to which a worker may be exposed under OSHA regulations. The PELs represent standards for air quality in workplaces where the compounds may be utilized as part of the industry practice. The OSHA PELs are the most appropriate standards for comparison in this study based upon the industrial operations which are present in and around the targeted buildings.

The VI/IAQ Study also provides a summary of two previous IAQ studies conducted by other firms in May and June 2005 in Building #9, Building #20, and Building #34. No compounds were detected at or above OSHA PELs in either of these earlier studies as well. Based upon the results of these studies, indoor air quality does not appear to be impacted to any significant degree so no additional work is proposed to be conducted at this time.

6.0 REFERENCES

ENSR. 2005. Site Investigation/Remedial Investigation/Remedial Action Workplan (SI/RI/RAW) for the Main Facility Area, Former Ingersoll-Rand Facility, Phillipsburg, New Jersey. ENSR Corporation, Inc., Piscataway, NJ.

RT. 2005. Report of Indoor Air Quality Testing – 4th Floor – Building 20 – Phillipsburg Commerce Center. RT Environmental Services, Inc., King of Prussia, PA.

Sovereign. 2005. Limited Indoor Air Assessment, Buildings 9 & 34, Phillipsburg Commerce Park, Phillipsburg, NJ. Sovereign Environmental Group, Coatesville, PA.

U.S. Environmental Protection Agency. 1999. Compendium Method TO-15 Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially Prepared Canisters and Analyzing by Gas Chromatography/Mass Spectrometry (GC/MS). Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air.

TABLES

TABLE 1
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey
Indoor Air Quality Results
Volatile Organic Compounds
June 4 and 5, 2005

Compound	CAS #	OSHA PEL ($\mu\text{g}/\text{m}^3$)	Sample ID					
			IAQ-1-13 ($\mu\text{g}/\text{m}^3$)	IAQ-2-8 ($\mu\text{g}/\text{m}^3$)	IAQ-3-7 ($\mu\text{g}/\text{m}^3$)	IAQ-4-9 ($\mu\text{g}/\text{m}^3$)	IAQ-5-24 ($\mu\text{g}/\text{m}^3$)	IAQ-6-BG ($\mu\text{g}/\text{m}^3$)
1,2,4-trimethylbenzene	95-63-6	NS	2.5 U	2.5 U	2.6	2.5 U	2.5 U	2.5 U
2-butanone (MEK)	78-93-3	590000	2.5	2.4	3.3	1.5 U	1.5 U	1.5 U
2-hexanone	591-78-6	410000	2.0 U	6.5	2.0 U	2.0 U	2.0 U	2.0 U
acetone	67-64-1	2400000	9.2	16	22	16	7.8	3.2
benzene	71-43-2	31947	1.6 U	1.6 U	2.0	1.6 U	1.6 U	1.6 U
carbon disulfide	75-15-0	62282	1.8	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
cis-1,2-dichloroethene	156-59-2	NS	2.0 U	2.0 U	2.3	2.0 U	2.0 U	2.0 U
ethylbenzene	100-41-4	435000	2.2	4.0	3.7	5.9	2.2 U	2.2 U
isopropanol	67-63-0	980000	1.2 U	1.2 U	2.6	2.5	1.2 U	1.2 U
methyl isobutyl ketone (MIBK)	108-10-1	410000	2.0 U	2.3	2.0 U	2.0 U	2.0 U	2.0 U
methyl tertiary-butyl ether (MTBE)	1634-04-4	NS	1.8 U	2.3	4.9	10	15	1.8 U
n-heptane	142-82-5	2000000	2.0 U	2.2	4.2	3.3	2.0 U	2.0 U
n-hexane	110-54-3	1800000	1.8 U	1.8 U	2.2	1.8 U	2.5	1.8 U
o-xylene*	95-47-6	435000	2.2	3.9	3.9	4.7	2.4	2.2 U
p & m-xylenes*	106-42-3 & 108-38-3	435000	5.8	12	13	20	6.9	4.3 U
styrene	100-42-5	425767	2.1 U	4.1	6.0	2.1 U	2.1 U	2.1 U
tetrachloroethene (PCE)	127-18-4	678119	5.8	4.6	11	3.4 U	3.4 U	3.4 U
toluene	108-88-3	753701	2.6	13	19	15	29	1.9 U
trichloroethene (TCE)	79-01-6	537423	2.7 U	2.7 U	3.7	2.7 U	2.7 U	2.7 U
trichlorofluoromethane	75-69-4	NS	5.4	8.5	18	25	4.5	2.8 U

OSHA PEL = United States Occupational Safety & Health Administration Permissible Exposure Level, 8-hour Time-Weighted Average

* = OSHA PEL is for Total Xylenes

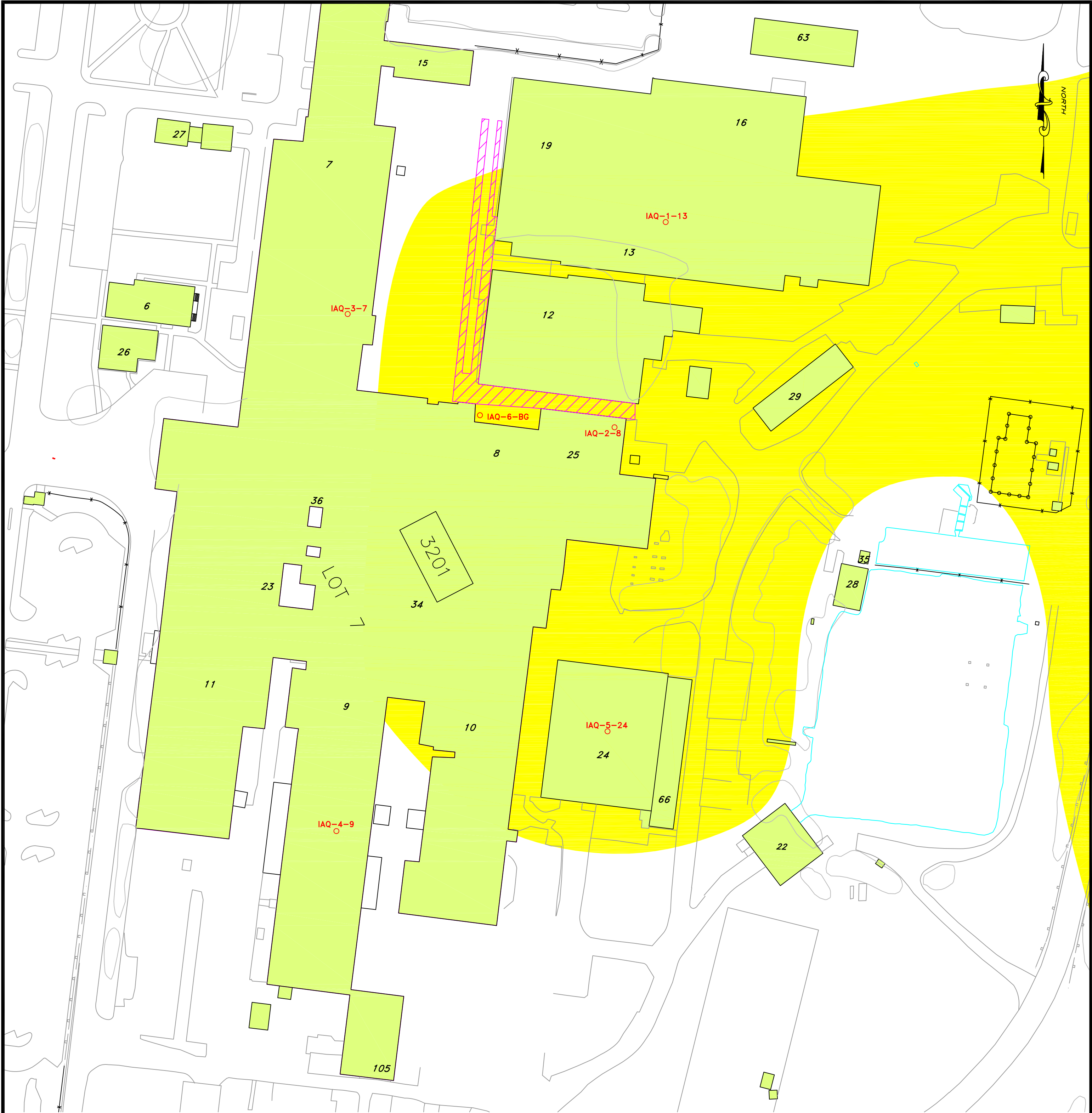
All results in $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter

U = laboratory qualifier indicating that the parameter was not detected at the reporting limit

CAS = Chemical Abstract Service

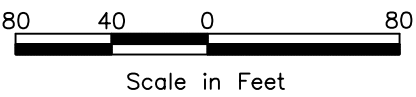
NS = no current standard/limit/guidance

FIGURES



Legend

- IAQ-X-Y INDOOR AIR QUALITY SAMPLE LOCATION
X = SAMPLE #; Y = BUILDING #
- SUBSURFACE UTILITY SUBWAY
- ESTIMATED AREA OF LNAPL IMPACT
- EXISTING BUILDING WITH ID NUMBER



INDOOR AIR QUALITY
SAMPLE LOCATIONS
FORMER INGERSOLL-RAND FACILITY
PHILLIPSBURG, NEW JERSEY

SCALE:	DATE:	PROJECT NUMBER:
AS SHOWN	08/31/05	3710-167



20 NEW ENGLAND AVENUE
PISCATAWAY, NEW JERSEY 08854
PHONE: (732) 981-0200
FAX: (732) 981-0116
WEB: HTTP://WWW.ENSUR.COM

DESIGNED BY:	REVISIONS			
SM	NO.:	DESCRIPTION:	DATE:	BY:
DRAWN BY:				
SM/jk				
CHECKED BY:				
NSO				
APPROVED BY:				

FIGURE NUMBER:

1

SHEET NUMBER:

1 of 1

ATTACHMENTS

ATTACHMENT 1

Limited Indoor Air Assessment, May 5, 2005,
Sovereign Environmental Group

SOVEREIGN

Environmental Group

Robert A. Baines, Principal

Larry W. Johnson, PE, CIH, Principal

May 5, 2005

Mr. Peter J. Fontaine
Cozen O'Connor
457 Haddonfield Road
Suite 300
Cherry Hill, New Jersey 08002

Subject: Limited Indoor Air Assessment
Buildings 9 & 34
Phillipsburg Commerce Park
Phillipsburg, NJ

Dear Mr. Fontaine,

Sovereign Environmental Group (Sovereign) was retained by Cozen O'Connor to conduct a limited indoor air assessment within Buildings 9 and 34 of the Phillipsburg Commerce Park, Phillipsburg, New Jersey.

Background

Phillipsburg Commerce Park is located at 942 Memorial Parkway, Phillipsburg, New Jersey. It was recently acquired by Preferred Real Estate Investments, Inc. and is being developed as a business park with multiple tenants occupying space in the existing buildings.

The site was formerly owned and operated as a manufacturing facility by Ingersoll Rand. Information provided to Sovereign indicated the facility had been in operation since the early 1900's. Facility operations included use of petroleum oils and chemicals as lubricants and cleaners, impacting the environmental quality of the site.

Currently, ENSR International, Piscataway, New Jersey, (ENSR) is performing site characterization and remediation under the State of New Jersey regulations. As part of these activities, groundwater was tested in the vicinity of Buildings 9 and 34. Two items of concern were documented - an oil product plume, containing No. 2 fuel oil, No. 4 fuel oil and quench oil; and identification of several chlorinated solvents in the groundwater. Information in a preliminary report from ENSR, dated April, 2005, identified perchloroethylene (PCE), trichloroethylene (TCE) and 1,1-dichloroethylene (1,1-DCE) in a monitoring well located within 100-feet of Buildings 9 and 34. The ENSR report identified volatile organic compounds (VOCs) in the oil plume beneath the buildings.

Sovereign was contacted by Cozen O'Connor, Cherry Hill, New Jersey, to conduct a limited investigation to determine if the identified compounds were impacting the air quality of Buildings 9 and 34. In addition to PCE, TCE, and 1,1-DCE, evaluation of vinyl chloride was conducted. Vinyl chloride is a breakdown product of the other compounds and is a health concern at very low levels.

Field Investigation

Sovereign was on-site on April 26-27, 2005. Samples were collected throughout the two buildings to determine if the oil plume and the presence of chlorinated solvents identified in the groundwater had impacted the air quality. A total of eight samples were collected in Buildings 9 and 34. Sampling locations are described in Table 1.

Samples for PCE, TCE, and 1,1-DCE were collected by drawing a measured volume of air through a sampling tube, according to National Institute of Occupational Safety and Health (NIOSH) methods 1003 and 1022. Samples were collected on charcoal tubes. Battery powered sampling pumps were initially calibrated to a flow rate of approximately 0.2 liters per minute (lpm) and calibration was confirmed at the end of the sampling period. The samples were logged on a chain-of-custody and sent to Galson Laboratories, East Syracuse, New York, an American Industrial Hygiene Association (AIHA) accredited laboratory.

Similarly, samples for vinyl chloride were collected by drawing a measured volume of air through an Anasorb CMS sampling tube, according to Occupational Safety and Health Administration (OSHA) method 75. Battery powered sampling pumps were calibrated to a flow rate of approximately 0.05 lpm. Actual volume sampled was determined by a stroke counter located on each pump. The samples were logged on a chain-of-custody and sent to Galson Laboratories for analysis.

The analytical data provided by Galson Laboratories is located in Attachment 1 of this report.

Additionally, seven samples were collected by adsorption onto passive sampling badges according to OSHA methods 7 and 69. Analytical determination of VOC concentrations was accomplished using a gas chromatograph equipped with a flame ionization detector. Samples were logged on a chain of custody and submitted to ACS International, Boca Raton, Florida, an AIHA accredited laboratory. Attachment 2 contains the laboratory reports for the badge analyses.

Results

Laboratory results are presented in Table 2. All targeted compounds were at levels less than the laboratory limits of quantitation.

Discussion and Conclusions

Information provided to Sovereign indicates that the petroleum products and the chemicals of concern identified in groundwater are at concentrations that could impact the air quality in the buildings investigated. However, samples collected for this assessment indicate the air quality of Buildings 9 and 34 have not been impacted by the oil plume or the chlorinated solvents identified in the groundwater.

If you have any questions or need any additional information, please contact me.

Sincerely,



Cynthia J. Sattizahn
Associate
csattizahn@sovereignenvironmental.com

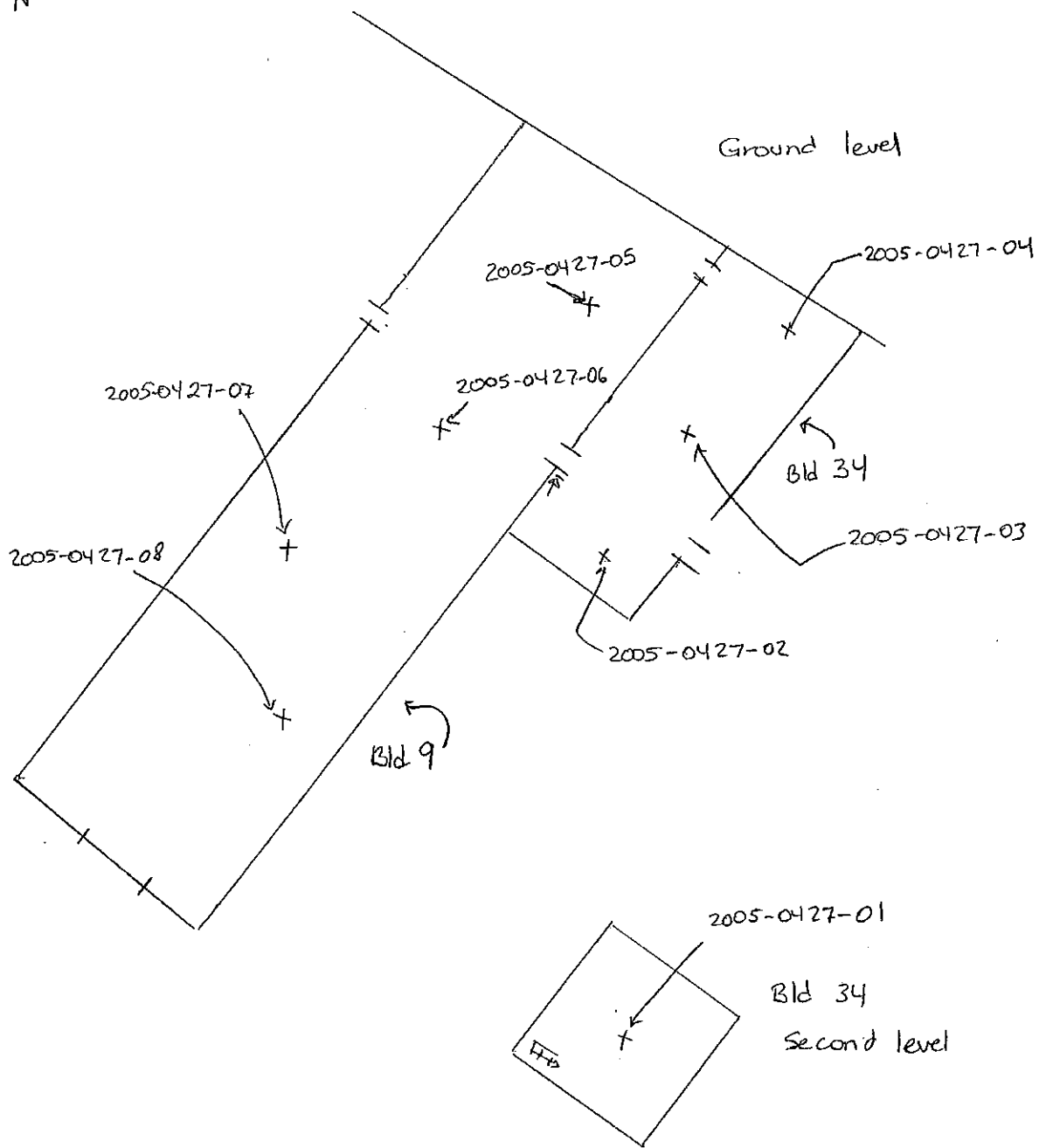
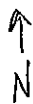


Larry W. Johnson, PE, CIH
Principal
ljohnson@sovereignenvironmental.com

Tables
Attachment Laboratory reports



N:\Clients\Cozen O'Connor\2005-0505 rpt.doc



Air SAMPLING Locations
Not to scale
4/27/05

OS-0044
Site sketch
Phillipsburg Commerce Park

Table 1
SAMPLING LOCATIONS
Phillipsburg Commerce Park – Buildings 9 & 34
Phillipsburg, New Jersey

Sample Identification	Badge Number	Location
2005-0427-01	49487	Building 34 – Adjacent office area – Second floor
2005-0427-02	49486	Building 34 – Adjacent office area – First floor
2005-0427-03	51469	Building 34 – General manufacturing area
2005-0427-04	51467	Building 34 – “Venditeria”
2005-0427-05	51468	Building 9 – North end
2005-0427-06	51465	Building 9 – Mid-north area
2005-0427-07	51466	Building 9 – Mid-south area
2005-0427-08	-	Building 9 – South end
Note: Samples were collected by Sovereign Environmental Group on April 27, 2005.		

Table 2
ASSESSMENT RESULTS

Phillipsburg Commerce Park – Buildings 9 & 34
Phillipsburg, New Jersey

Sample Identification	Perchloroethylene (Tetrachloroethylene) (ppm)	Trichloroethylene (ppm)	1,1-Dichloroethylene (ppm)	Vinyl chloride (ppm)	Acetone (ppm)	Ethyl alcohol (ppm)	Other VOC ⁽¹⁾
OSHA Permissible Exposure Limit⁽²⁾	100	100	None	1	1000	1000	-
2005-0427-01	<0.01	<0.01	<0.02	<0.02	<0.1	<0.1	Not detected
2005-0427-02	<0.01	<0.01	<0.02	<0.02	<0.1	Not detected	Not detected
2005-0427-03	<0.01	<0.01	<0.02	<0.02	<0.1	Not detected	Not detected
2005-0427-04	<0.01	<0.01	<0.02	<6 ⁽²⁾	<0.1	Not detected	Not detected
2005-0427-05	<0.01	<0.02	<0.02	<0.02	<0.1	Not detected	Not detected
2005-0427-06	<0.01	<0.01	<0.02	<0.02	<0.1	Not detected	Not detected
2005-0427-07	<0.01	<0.01	<0.02	<0.02	<0.1	Not detected	Not detected
2005-0427-08	<0.01	<0.01	<0.02	<0.02	-	-	-

Notes: ppm Parts per million by volume

1. The gas chromatography volatile organic compound (VOC) scan also tested for the following compounds and did not find concentrations above the instrument detection limits:

Acetic Acid	Carbon Tetrachloride	Dimethyl Sulfoxide	Heptane	Methyl Methacrylate	Toluene
Acetonitrile	Cellosolve	Dioxane	Hexane	Methyl-t-butyl Ether	Trichloroethane
Acrylonitrile	Chlorobenzene	Dipropylene Glycol	Hexone (MIBK)	Methylene Chloride	Trichloroethylene
Allyl Chloride	Chloroform	Ethoxyethanol	Isobutyl Alcohol	Pentane	1,2,4-Trimethylbenzene
Benzene	Cyclohexane	2-Ethoxyethyl Ether	Isooctane	Perchloroethylene	Vinyl Acetate
2-Butanone (MEK)	Cyclohexanol	Ethyl Acetate	Isopropyl Alcohol	Pyridine	Xylene
Butyl Acetate	Cyclohexanone	Ethyl Benzene	Methyl Acrylate	Styrene	
Butyl Carbitol	1,2-Dichloroethane	Ethyl Ether	Methyl Chloroform	Tetrahydrofuran	
Butyl Cellosolve	Dimethyl Formamide	Formamide	Methyl Ether		

2. OSHA Permissible Exposure Limits are shown for comparison only. Data in the table was produced for the time of testing – not a full eight-hour work day.
3. The laboratory limit of quantitation for this sample was increased because volume of air sampled was very low due to pump failure.
4. Data shown with “less than” symbol indicates concentration was below laboratory limit of quantitation.

Samples were collected by Sovereign Environmental Group on April 27, 2005.



6601 KIRKVILLE ROAD
EAST SYRACUSE, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.galsonlabs.com

Ms. Cindy Sattizahn
Sovereign Environmental Group
495 Highlands Blvd.
Suite 109
Coatesville, PA 19320

April 28, 2005

DOH ELAP# 11626

Account# 13249

Login# L117847

Dear Ms. Sattizahn:

Enclosed are the analytical results of the samples received by our laboratory April 28, 2005. All test results meet the quality control requirements of AIHA and NELAC unless otherwise stated in this report.

Results in this report are based on the sampling data provided by the client and refer only to items tested. Unless otherwise requested, all samples will be discarded thirty days from the date of this report.

Please contact your client service representative, Charlene Moser at (888) 432-5227, if you would like any additional information regarding this report.

Thank you for using Galson Laboratories.

Sincerely,

Galson Laboratories

F. Joseph Unangst
Laboratory Director

Enclosure(s)



6601 KIRKVILLE ROAD
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(315) 432-5227
FAX: (315) 437-0571
www.galsonlabs.com

LABORATORY ANALYSIS REPORT

Client : Sovereign Environmental Group
Site : PCP-Bld. 9 & 34
Project No. : PCP

Date Sampled : 27-APR-05
Date Received : 28-APR-05
Date Analyzed : 28-APR-05

Account No.: 13249
Login No. : L117847

Vinyl Chloride

Sample ID	Lab ID	Air Vol liter	Front ug	Back ug	Total ug	Conc mg/m3	ppm
2005-0427-01	L117847-10	17.13	<1	<1	<1	<0.06	<0.02
2005-0427-02	L117847-11	17.06	<1	<1	<1	<0.06	<0.02
2005-0427-03	L117847-12	17.34	<1	<1	<1	<0.06	<0.02
2005-0427-04	L117847-13	0.0650	<1	<1	<1	<20	<6
2005-0427-05	L117847-14	16.05	<1	<1	<1	<0.06	<0.02
2005-0427-07	L117847-16	18.52	<1	<1	<1	<0.05	<0.02
2005-0427-08	L117847-17	19.76	<1	<1	<1	<0.05	<0.02

COMMENTS: Total ug corrected for a desorption efficiency of 100%.

Level of quantitation: 1 ug
Analytical Method : mod. OSHA 75; GC/FID
OSHA PEL (TWA) : 1 ppm
Collection Media : AnasorbCMS

Submitted by: SRS
Approved by : dk
Date : 28-APR-05 NYS DOH # : 11626
QC by: Jim Waelchli

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms
> -Greater Than ug -Micrograms l -Liters NS -Not Specified
NA -Not Applicable ND -Not Detected ppm -Parts per Million



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LABORATORY ANALYSIS REPORT

Client : Sovereign Environmental Group
Site : PCP-Bld. 9 & 34
Project No. : PCP

Date Sampled : 27-APR-05
Date Received : 28-APR-05
Date Analyzed : 28-APR-05

Account No.: 13249
Login No. : L117847

1,1-Dichloroethene

Sample ID	Lab ID	Air Vol liter	Front ug	Back ug	Total ug	Conc mg/m3	ppm
2005-0427-01	L117847-2	69.0	<5	<5	<5	<0.07	<0.02
2005-0427-02	L117847-3	68.2	<5	<5	<5	<0.07	<0.02
2005-0427-03	L117847-4	68.7	<5	<5	<5	<0.07	<0.02
2005-0427-04	L117847-5	69.5	<5	<5	<5	<0.07	<0.02
2005-0427-05	L117847-6	52.4	<5	<5	<5	<0.1	<0.02
2005-0427-06	L117847-7	71.2	<5	<5	<5	<0.07	<0.02
2005-0427-07	L117847-8	67.8	<5	<5	<5	<0.07	<0.02
2005-0427-08	L117847-9	70.4	<5	<5	<5	<0.07	<0.02

COMMENTS: Total ug corrected for a desorption efficiency of 97%.

Level of quantitation: 5 ug
Analytical Method : mod. NIOSH 1003
OSHA PEL (TWA) : NA
Collection Media : Charcoal

Submitted by: LL
Approved by : dk
Date : 28-APR-05 NYS DOH # : 11626
QC by: Jim Waelchli

< -Less Than	mg -Milligrams	m3 -Cubic Meters	kg -Kilograms
> -Greater Than	ug -Micrograms	l -Liters	NS -Not Specified
NA -Not Applicable	ND -Not Detected	ppm -Parts per Million	



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www.galsonlabs.com

LABORATORY ANALYSIS REPORT

Client : Sovereign Environmental Group
Site : PCP-Bld. 9 & 34
Project No. : PCP

Date Sampled : 27-APR-05
Date Received : 28-APR-05
Date Analyzed : 28-APR-05

Account No.: 13249
Login No. : L117847

Trichloroethylene

Sample ID	Lab ID	Air Vol liter	Front ug	Back ug	Total ug	Conc mg/m3	ppm
2005-0427-01	L117847-2	69.0	<5	<5	<5	<0.07	<0.01
2005-0427-02	L117847-3	68.2	<5	<5	<5	<0.07	<0.01
2005-0427-03	L117847-4	68.7	<5	<5	<5	<0.07	<0.01
2005-0427-04	L117847-5	69.5	<5	<5	<5	<0.07	<0.01
2005-0427-05	L117847-6	52.4	<5	<5	<5	<0.1	<0.02
2005-0427-06	L117847-7	71.2	<5	<5	<5	<0.07	<0.01
2005-0427-07	L117847-8	67.8	<5	<5	<5	<0.07	<0.01
2005-0427-08	L117847-9	70.4	<5	<5	<5	<0.07	<0.01

COMMENTS: Total ug corrected for a desorption efficiency of 100%.

Level of quantitation: 5 ug
Analytical Method : mod. NIOSH 1022; GC/FID
OSHA PEL (TWA) : 100 ppm
Collection Media : Charcoal

Submitted by: LL
Approved by : dk
Date : 28-APR-05 NYS DOH # : 11626
QC by: Jim Waelchli

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms
> -Greater Than ug -Micrograms l -Liters NS -Not Specified
NA -Not Applicable ND -Not Detected ppm -Parts per Million



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LABORATORY ANALYSIS REPORT

Client : Sovereign Environmental Group
Site : PCP-Bld. 9 & 34
Project No. : PCP

Date Sampled : 27-APR-05
Date Received : 28-APR-05
Date Analyzed : 28-APR-05

Account No.: 13249
Login No. : L117847

Tetrachloroethylene

Sample ID	Lab ID	Air Vol liter	Front ug	Back ug	Total ug	Conc mg/m3	ppm
2005-0427-01	L117847-2	69.0	<5	<5	<5	<0.07	<0.01
2005-0427-02	L117847-3	68.2	<5	<5	<5	<0.07	<0.01
2005-0427-03	L117847-4	68.7	<5	<5	<5	<0.07	<0.01
2005-0427-04	L117847-5	69.5	<5	<5	<5	<0.07	<0.01
2005-0427-05	L117847-6	52.4	<5	<5	<5	<0.1	<0.01
2005-0427-06	L117847-7	71.2	<5	<5	<5	<0.07	<0.01
2005-0427-07	L117847-8	67.8	<5	<5	<5	<0.07	<0.01
2005-0427-08	L117847-9	70.4	<5	<5	<5	<0.07	<0.01

COMMENTS: Total ug corrected for a desorption efficiency of 100%.

Level of quantitation: 5 ug
Analytical Method : mod. NIOSH 1003; GC/FID
OSHA PEL (TWA) : 100 ppm
Collection Media : Charcoal

Submitted by: LL
Approved by : dk
Date : 28-APR-05 NYS DOH # : 11626
QC by: Jim Waelchli

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms
> -Greater Than ug -Micrograms l -Liters NS -Not Specified
NA -Not Applicable ND -Not Detected ppm -Parts per Million



3601 Kirkville Rd
East Syracuse, NY 13057-9672
Tel: 315-432-5227
888-432-LABS(5227)
Fax: 315-437-0571
www.galsionlabs.com

☐ Check if change
of address

New Client? ☐ yes
☐ no

Report To : Cindy Sattizahn
Sovereign Environmental Group
495 Highlands Blvd, Suite 109
Coatesville, PA 19320
Phone No. : 610-383-9919
Fax No. : 610-383-9979

Invoice To :

Phone No. :

Fax No. :

Site Name : PCP-Bld 9 & 34 Project : PCP

Sampled By : C. Sattizahn

Need Results By:	(surcharge)
<input type="checkbox"/> 5 Business Days	0%
<input type="checkbox"/> 4 Business Days	35%
<input type="checkbox"/> 3 Business Days	50%
<input type="checkbox"/> 2 Business Days	75%
<input type="checkbox"/> Next Day by 6pm	100%
<input type="checkbox"/> Next Day by Noon	150%
<input checked="" type="checkbox"/> Same day	200%

Client Account No. : 13249

Purchase Order No. :

Credit Card No. :

Card Holder Name :

Exp. :

Email / Fax Results To : Cindy Sattizahn

Email Address : csattizahn@sovereignenvironmental.com Fax No. : 610-383-9979

Sample Identification	Date Sampled	Collection Medium	*Air Volume (Liters)	Passive Monitors (Min)	Analysis Requested	Method Reference	Specific DL Needed
2005-0427-01	4/27/05	226-01	69.0		TCE, PCE & 1,1-DCE	NIOSH 1003	
2005-0427-02			68.2				
2005-0427-03			68.7				
2005-0427-04			69.5				
2005-0427-05			52.4				
2005-0427-06			71.2				
2005-0427-07			67.8				
2005-0427-08			70.4				
2005-0427-01		226-121	17.13		Vinyl Chloride	OSHA 75	
2005-0427-02			17.06				
2005-0427-03*			17.34				

☒ IF YOU DO NOT WANT A LABORATORY BLANK ADDED PLEASE CHECK BOX, otherwise, a blank will be added for each analyte and will be charged at normal rate.

List description of industry or process / interference's present in sampling area:

Comments: -03 for Vinyl chloride - end of tube broken at end of test.

PUMP LOAN

Chain of Custody	Print Name	Signature	Date/Time
Relinquished by :	<u>Cynthia Sattizahn</u>	<u>C. Sattizahn</u>	<u>4/27/05</u>
Received by LAB :	<u>M. Krause</u>	<u>M. Krause</u>	<u>04-28-05 08:25 R.</u>

Login # : 2117847 Samples received after 3pm will be considered as next day's business

* sample collection time X LPM = Air Vol.

LAB ORIGINAL



3601 Kirkville Rd
East Syracuse, NY 13057-9672
Tel: 315-432-5227
888-432-LABS(5227)
Fax: 315-437-0571
www.galsonlabs.com

☐ Check if change of address

New Client? ☐ yes
☐ no

Report To : _____

Phone No. : See page 1
Fax No. : _____

Invoice To : _____

Phone No. : See page 1
Fax No. : _____

Site Name : PCP-Bld 9434 Project : PCP

Sampled By : C. J. J. J.

Need Results By:	(surcharge)
<input type="checkbox"/> 5 Business Days	0%
<input type="checkbox"/> 4 Business Days	35%
<input type="checkbox"/> 3 Business Days	50%
<input type="checkbox"/> 2 Business Days	75%
<input type="checkbox"/> Next Day by 6pm	100%
<input type="checkbox"/> Next Day by Noon	150%
<input checked="" type="checkbox"/> Same day	200%

Client Account No. : _____
Purchase Order No. : _____
Credit Card No. : _____ Card Holder Name : _____ Exp. : _____
Email / Fax Results To : See page 1
Email Address : _____ Fax No. : _____

Sample Identification	Date Sampled	Collection Medium	*Air Volume (Liters)	Passive Monitors (Min)	Analysis Requested	Method Reference	Specific DL Needed
2005-0427-04	4/27/05	226-121	0.065		Vinyl chloride	OSHA 75	
2005-0427-05	↓	↓	16.05		↓	↓	
2005-0427-06	↓	↓	-		↓	↓	
2005-0427-07	↓	↓	18.52		↓	↓	
2005-0427-08	↓	↓	19.76		↓	↓	

☒ IF YOU DO NOT WANT A LABORATORY BLANK ADDED PLEASE CHECK BOX, otherwise, a blank will be added for each analyte and will be charged at normal rate.

List description of industry or process / interference's present in sampling area: _____

Comments: _____ **PUMP LOAN**

Chain of Custody	Print Name	Signature	Date/Time
Relinquished by :	<u>Cynthia Sathizahr</u>	<u>C. J. J. J.</u>	<u>4/27/05</u>
Received by LAB :	<u>M. Krause</u>	<u>M. Krause</u>	<u>04-28-05 08:25 RCVE</u>

Login # : L117847 Samples received after 3pm will be considered as next day's business

* sample collection time X LPM = Air Vol.

LAB ORIGINAL



Laboratory Pump Calibration Data

(for 222-Series pumps)

PREP # 64153

Page 1 of 1

Pump Calibration Record:		Calibrated By: <u>SLH</u> (initials) DryCal Reading (LPM) *1	Stroke Factor (ml/COUNT) from label on Pump	COUNTER Starting Number	COUNTER Ending Number	Total Number of pump pulses (COUNTER ending number MINUS Starting Number)	Sample's FINAL (TRUE) Air Volume in mls. (Total number of pump pulses times Stroke Factor)
Date	Pump Number						
3/31/05	PP054	0.05792	.541	890172	926696	36524	19759
3/31/05	PP052	0.05251	.488	94028	131913	37945	18517
3/31/05	PP055	0.04846	.505	635300	667081	31781	16049
4/4/05	PP018	0.05103 LPM	.466	304297	304300	3	1
4/4/05	PP019	0.05265	.467	745604	782133	36529	17059
4/4/05	PP029	0.04974	.492	921721	956966	35245	17340
4/4/05	PP032	0.05246	.424	338312	378719	40407	17132
4/4/05	PP035	0.04554	.510	264955	265083	128	65

FOOTNOTES:

NOTE: For PROPER SAMPLE AIR VOLUMES, you **MUST** calculate using the pump's COUNTER numbers (as shown above).

The Flow Rate figures shown in 3rd column show the pump is "in the ballpark" only. The DryCal method should never be used to calculate final air volumes. We DO NOT "Post-Calibrate" these pumps. The results would be inaccurate.

STOCK NOTES:

- *1) Flow rate shown is the ACTUAL flow rate, based on 10-reading average(s) from our Primary Flowmeter
- *2) Pump(s) left Galson Laboratories UNCALIBRATED

Approved by: Lyndi W. Mott
Date: 3/11/05

pumpcaldata 222-series pumps

Form: IP9 / Rev. 0
Issue Date: 3/05

Att: Cynthia Sattizahn
SOVEREIGN ENVIRONMENTAL GROUP
495 Highland Blvd. Ste. 109
Coatesville PA 19320-5808

04/29/05

ORGANIC VAPORS ANALYSIS REPORT

49487 04/27/05 No Info Given 9:30 -- 15:15 = 5.75
338334

Acetone	Less than 0.1
Ethyl Alcohol	Less than 0.1

The chemicals tested are listed on the next page. The chemicals that are not reported above are not detected. No concentration is above 0.1 ppm.

Method of Analysis: OSHA Method 69, 7

Received Date: 04/28/05

Date Analyzed: 04/28/05

page 1 of 2

Att: Cynthia Sattizahn
SOVEREIGN ENVIRONMENTAL GROUP
495 Highland Blvd. Ste. 109
Coatesville PA 19320-5808

04/29/05

ORGANIC VAPORS ANALYSIS REPORT

Acetic Acid
Acetone
Acetonitrile
Acrylonitrile
Allyl Chloride
Benzene
2- Butanone (MEK)
Butyl Cellosolve
Butyl Acetate
Butyl Carbitol
Carbon Tetrachloride
Cellosolve
Chlorobenzene
Chloroform
Cyclohexane
Cyclohexanol
Cyclohexanone
1,2 Dichloroethane
Dimethyl Formamide
Dimethyl Sulfoxide
Dioxane
Dipropylene Glycol
Trichloroethylenen
Ethyl Acetate
Ethyl Alcohol
Ethyl Benzene

Ethyl Ether
Ethoxyethanol
2 - Ethoxyethyl Ether
Formamide
Heptane
Hexane
Hexone (MIBK)
Isobutyl Alcohol
Isopropyl Alcohol
Isooctane
Methyl Acrylate
Methyl Chloroform
Methyl Methacrylate
Methyl-t- butyl Ether
Methylene Chloride
Petane
Perchloroethylene
Pyridine
Styrene
Tetrahydrofuran
Methyl Ether
Vinyl Acetate
Toluene
Trichloroethane
1,2,4-Trimethylbenzene
Xylene

Att: Cynthia Sattizahn
SOVEREIGN ENVIRONMENTAL GROUP
495 Highland Blvd. Ste. 109
Coatesville PA 19320-5808

04/29/05

ORGANIC VAPORS ANALYSIS REPORT

49486 04/27/05 No Info Given
745604

9:40 — 15:20 = 5.67

Acetone Less than 0.1

(No Others Detected)

The chemicals tested are listed on the next page. The chemicals that are not reported above are not detected. No concentration is above 0.1 ppm.

Method of Analysis: OSHA Method 69

Received Date: 04/28/05

Date Analyzed: 04/28/05

page 1 of 2

Att: Cynthia Sattizahn
SOVEREIGN ENVIRONMENTAL GROUP
495 Highland Blvd. Ste. 109
Coatesville PA 19320-5808

04/29/05

ORGANIC VAPORS ANALYSIS REPORT

Acetic Acid	Ethyl Ether
Acetone	Ethoxyethanol
Acetonitrile	2 - Ethoxyethyl Ether
Acrylonitrile	Formamide
Allyl Chloride	Heptane
Benzene	Hexane
2- Butanone (MEK)	Hexone (MIBK)
Butyl Cellosolve	Isobutyl Alcohol
Butyl Acetate	Isopropyl Alcohol
Butyl Carbitol	Isooctane
Carbon Tetrachloride	Methyl Acrylate
Cellosolve	Methyl Chloroform
Chlorobenzene	Methyl Methacrylate
Chloroform	Methyl-t- butyl Ether
Cyclohexane	Methylene Chloride
Cyclohexanol	Petane
Cyclohexanone	Perchloroethylene
1,2 Dichloroethane	Pyridine
Dimethyl Formamide	Styrene
Dimethyl Sulfoxide	Tetrahydrofuran
Dioxane	Methyl Ether
Dipropylene Glycol	Vinyl Acetate
Trichloroethylenen	Toluene
Ethyl Acetate	Trichloroethane
Ethyl Alcohol	1,2,4-Trimethylbenzene
Ethyl Benzene	Xylene

Att: Cynthia Sattizahn
SOVEREIGN ENVIRONMENTAL GROUP
495 Highland Blvd. Ste. 109
Coatesville PA 19320-5808

04/29/05

ORGANIC VAPORS ANALYSIS REPORT

51469 04/27/05 No Info Given
921722

9:45 — 15:25 = 5.67

Acetone Less than 0.1

(No Others Detected)

The chemicals tested are listed on the next page. The chemicals that are not reported above are not detected. No concentration is above 0.1 ppm.

Method of Analysis: OSHA Method 69

Received Date: 04/28/05

Date Analyzed: 04/29/05

page 1 of 2

Att: Cynthia Sattizahn
SOVEREIGN ENVIRONMENTAL GROUP
495 Highland Blvd, Ste. 109
Coatesville PA 19320-5808

04/29/05

ORGANIC VAPORS ANALYSIS REPORT

Acetic Acid	Ethyl Ether
Acetone	Ethoxyethanol
Acetonitrile	2 - Ethoxyethyl Ether
Acrylonitrile	Formamide
Allyl Chloride	Heptane
Benzene	Hexane
2- Butanone (MEK)	Hexone (MIBK)
Butyl Cellosolve	Isobutyl Alcohol
Butyl Acetate	Isopropyl Alcohol
Butyl Carbitol	Isooctane
Carbon Tetrachloride	Methyl Acrylate
Cellosolve	Methyl Chloroform
Chlorobenzene	Methyl Methacrylate
Chloroform	Methyl-t- butyl Ether
Cyclohexane	Methylene Chloride
Cyclohexanol	Petane
Cyclohexanone	Perchloroethylene
1,2 Dichloroethane	Pyridine
Dimethyl Formamide	Styrene
Dimethyl Sulfoxide	Tetrahydrofuran
Dioxane	Methyl Ether
Dipropylene Glycol	Vinyl Acetate
Trichloroethylenen	Toluene
Ethyl Acetate	Trichloroethane
Ethyl Alcohol	1,2,4-Trimethylbenzene
Ethyl Benzene	Xylene

Att: Cynthia Sattizahn
SOVEREIGN ENVIRONMENTAL GROUP
495 Highland Blvd. Ste. 109
Coatesville PA 19320-5808

04/29/05

ORGANIC VAPORS ANALYSIS REPORT

51467 04/27/05 No Info Given
264955

9:50 -- 15:30 = 5.67

Acetone Less than 0.1

(No Others Detected)

The chemicals tested are listed on the next page. The chemicals that are not reported above are not detected. No concentration is above 0.1 ppm.

Method of Analysis: OSHA Method 69

Received Date: 04/28/05

Date Analyzed: 04/28/05

page 1 of 2

Att: Cynthia Sattizahn
SOVEREIGN ENVIRONMENTAL GROUP
495 Highland Blvd. Ste. 109
Coatesville PA 19320-5808

04/29/05

ORGANIC VAPORS ANALYSIS REPORT

Acetic Acid	Ethyl Ether
Acetone	Ethoxyethanol
Acetonitrile	2 - Ethoxyethyl Ether
Acrylonitrile	Formamide
Allyl Chloride	Heptane
Benzene	Hexane
2- Butanone (MEK)	Hexone (MIBK)
Butyl Cellosolve	Isobutyl Alcohol
Butyl Acetate	Isopropyl Alcohol
Butyl Carbitol	Isooctane
Carbon Tetrachloride	Methyl Acrylate
Cellosolve	Methyl Chloroform
Chlorobenzene	Methyl Methacrylate
Chloroform	Methyl-t- butyl Ether
Cyclohexane	Methylene Chloride
Cyclohexanol	Petane
Cyclohexanone	Perchloroethylene
1,2 Dichloroethane	Pyridine
Dimethyl Formamide	Styrene
Dimethyl Sulfoxide	Tetrahydrofuran
Dioxane	Methyl Ether
Dipropylene Glycol	Vinyl Acetate
Trichloroethylenen	Toluene
Ethyl Acetate	Trichloroethane
Ethyl Alcohol	1,2,4-Trimethylbenzene
Ethyl Benzene	Xylene

Att: Cynthia Sattizahn
SOVEREIGN ENVIRONMENTAL GROUP
495 Highland Blvd. Ste. 109
Coatesville PA 19320-5808

04/29/05

ORGANIC VAPORS ANALYSIS REPORT

51468 04/27/05 No Info Given
635301

10:00 -- 15:40 = 5.67

Acetone Less than 0.1

(No Others Detected)

The chemicals tested are listed on the next page. The chemicals that are not reported above are not detected. No concentration is above 0.1 ppm.

Method of Analysis: OSHA Method 69

Received Date: 04/28/05

Date Analyzed: 04/28/05

page 1 of 2

Att: Cynthia Sattizahn
SOVEREIGN ENVIRONMENTAL GROUP
495 Highland Blvd. Ste. 109
Coatesville PA 19320-5808

04/29/05

ORGANIC VAPORS ANALYSIS REPORT

Acetic Acid
Acetone
Acetonitrile
Acrylonitrile
Allyl Chloride
Benzene
2- Butanone (MEK)
Butyl Cellosolve
Butyl Acetate
Butyl Carbitol
Carbon Tetrachloride
Cellosolve
Chlorobenzene
Chloroform
Cyclohexane
Cyclohexanol
Cyclohexanone
1,2 Dichloroethane
Dimethyl Formamide
Dimethyl Sulfoxide
Dioxane
Dipropylene Glycol
Trichloroethylenen
Ethyl Acetate
Ethyl Alcohol
Ethyl Benzene

Ethyl Ether
Ethoxyethanol
2 - Ethoxyethyl Ether
Formamide
Heptane
Hexane
Hexone (MIBK)
Isobutyl Alcohol
Isopropyl Alcohol
Isooctane
Methyl Acrylate
Methyl Chloroform
Methyl Methacrylate
Methyl-t- butyl Ether
Methylene Chloride
Petane
Perchloroethylene
Pyridine
Styrene
Tetrahydrofuran
Methyl Ether
Vinyl Acetate
Toluene
Trichloroethane
1,2,4-Trimethylbenzene
Xylene

Att: Cynthia Sattizahn
SOVEREIGN ENVIRONMENTAL GROUP
495 Highland Blvd. Ste. 109
Coatesville PA 19320-5808

04/29/05

ORGANIC VAPORS ANALYSIS REPORT

51465 04/27/05 No Info Given
304298

10:05 -- 15:45 = 5.67

Acetone Less than 0.1

(No Others Detected)

The chemicals tested are listed on the next page. The chemicals that are not reported above are not detected. No concentration is above 0.1 ppm.

Method of Analysis: OSHA Method 69

Received Date: 04/28/05

Date Analyzed: 04/28/05

page 1 of 2

Att: Cynthia Sattizahn
SOVEREIGN ENVIRONMENTAL GROUP
495 Highland Blvd. Ste. 109
Coatesville PA 19320-5808

04/29/05

ORGANIC VAPORS ANALYSIS REPORT

Acetic Acid	Ethyl Ether
Acetone	Ethoxyethanol
Acetonitrile	2 - Ethoxyethyl Ether
Acrylonitrile	Formamide
Allyl Chloride	Heptane
Benzene	Hexane
2- Butanone (MEK)	Hexone (MIBK)
Butyl Cellosolve	Isobutyl Alcohol
Butyl Acetate	Isopropyl Alcohol
Butyl Carbitol	Isooctane
Carbon Tetrachloride	Methyl Acrylate
Cellosolve	Methyl Chloroform
Chlorobenzene	Methyl Methacrylate
Chloroform	Methyl-t- butyl Ether
Cyclohexane	Methylene Chloride
Cyclohexanol	Petane
Cyclohexanone	Perchloroethylene
1,2 Dichloroethane	Pyridine
Dimethyl Formamide	Styrene
Dimethyl Sulfoxide	Tetrahydrofuran
Dioxane	Methyl Ether
Dipropylene Glycol	Vinyl Acetate
Trichloroethylenen	Toluene
Ethyl Acetate	Trichloroethane
Ethyl Alcohol	1,2,4-Trimethylbenzene
Ethyl Benzene	Xylene

Att: Cynthia Sattizahn
SOVEREIGN ENVIRONMENTAL GROUP
495 Highland Blvd. Ste. 109
Coatesville PA 19320-5808

04/29/05

ORGANIC VAPORS ANALYSIS REPORT

51466 04/27/05 No Info Given
094028

10:10 -- 15:50 = 5.67

Acetone Less than 0.1

(No Others Detected)

The chemicals tested are listed on the next page. The chemicals that are not reported above are not detected. No concentration is above 0.1 ppm.

Method of Analysis: OSHA Method 69

Received Date: 04/28/05

Date Analyzed: 04/28/05

page 1 of 2

Att: Cynthia Sattizahn
SOVEREIGN ENVIRONMENTAL GROUP
495 Highland Blvd. Ste. 109
Coatesville PA 19320-5808

04/29/05

ORGANIC VAPORS ANALYSIS REPORT

Acetic Acid	Ethyl Ether
Acetone	Ethoxyethanol
Acetonitrile	2 - Ethoxyethyl Ether
Acrylonitrile	Formamide
Allyl Chloride	Heptane
Benzene	Hexane
2- Butanone (MEK)	Hexone (MIBK)
Butyl Cellosolve	Isobutyl Alcohol
Butyl Acetate	Isopropyl Alcohol
Butyl Carbitol	Isooctane
Carbon Tetrachloride	Methyl Acrylate
Cellosolve	Methyl Chloroform
Chlorobenzene	Methyl Methacrylate
Chloroform	Methyl-t- butyl Ether
Cyclohexane	Methylene Chloride
Cyclohexanol	Petane
Cyclohexanone	Perchloroethylene
1,2 Dichloroethane	Pyridine
Dimethyl Formamide	Styrene
Dimethyl Sulfoxide	Tetrahydrofuran
Dioxane	Methyl Ether
Dipropylene Glycol	Vinyl Acetate
Trichloroethylenen	Toluene
Ethyl Acetate	Trichloroethane
Ethyl Alcohol	1,2,4-Trimethylbenzene
Ethyl Benzene	Xylene

Chain-of-Custody and Analysis Request Form

Address: 495 Highlands Boulevard

Coatesville, PA 19320

Telephone # 610-383-9919

E-mail address: csattizahn@sovereignenvironmental.com

Project ID: PCP- 196d 9 4 34

[illegible]

Submitted by: (sign) Quayle

(print) Cynthia Sathrahn

(print) _____

Date and time received: _____

ATTACHMENT 2

Report of Indoor Air Quality Testing, May 10, 2005,
RT Environmental Services, Inc.

May 10, 2005

Ms. Michele Devine
Preferred Real Estate Investments, Inc.
Suite 100
1001 E. Hector St.
Conshohocken, PA 19428

**RE: REPORT OF INDOOR AIR QUALITY TESTING - 4TH FLOOR -
BUILDING 20 - PHILLIPSBURG COMMERCE CENTER**

Dear Ms. Devine:

RT Environmental Services is pleased to submit the results from indoor air quality sampling and analysis completed at the above-referenced facility.

VOLATILE ORGANIC COMPOUND (VOC) SURVEY

Two (2) samples were obtained following applicable protocols, including shutting off the HVAC system 24 hours in advance of testing. Samples were taken at two locations on the 4th Floor, as shown in the attached Field Log (Attachment 1). Samples were biased to the building configuration, one sample was taken proximal to the elevator shaft.

Table 1 shows the VOCs identified in the two air samples. The analytical data for the VOC analysis are presented in Attachment 2. The VOCs detected were detected at concentrations well below applicable OSHA Permissible Exposure Limits.

RADON SURVEY

Sixty-four (64) radon testing devices were placed on the fourth floor of Building 20 following appropriate radon survey protocols. Samples were taken at sixty four locations on the 4th Floor, as shown in the attached Field Log (Attachment 3).

The results of the radon survey indicate that the average results from the survey are 1.4 pCi/L within the fourth floor of Building 20. Per USEPA guidance; averaging the radon results in a test area provides an accurate assessment of the radon level of the testing site.

Table 2 shows the analytical data for the sample results provided from the radon survey. The analytical data for the radon analysis are presented in Attachment 4. The area surrounding building 20 has a Zone 1 tier rating for radon. Zone 1 areas have an average indoor radon level of greater than 4.0 pCi/L. The results of the survey are consistent with background radon levels in a Zone 1 area.



RADON SURVEY OF THE PROPOSED LAB AREA

Sample ID # 401842, 401843, and 401845 are located within the central portion of the fourth floor of Building 20. It is reported that the area where these samples were collected is the area of the proposed animal laboratory. These samples exhibited a radon concentration of 1.3 pCi/L, 1.5 pCi/L, and 1.3 pCi/L respectively, below the action level of 1.65 pCi/L as indicated by Celldex personnel.

CONCLUSIONS

As only low level concentrations of organic constituents present are for compounds which are commonly found in indoor air of commercial buildings, it is RT's conclusion that indoor air quality is not of further concern.

As only background levels of radon were found on the fourth floor of the building, it is RT's conclusion that indoor air quality is not of further concern.

We appreciate the opportunity to be of further service to Preferred Real Estate Investments; should you have any questions, do not hesitate to call.

Very truly yours,

RT ENVIRONMENTAL SERVICES, INC.

A handwritten signature in black ink, appearing to read "Gary R. Brown".

Gary R. Brown P.E.
President

CC: P. Fontaine - Cozen O'Connor
Jim McCahon - PREI
R. Carey - RT

GRB/tjr

TABLE 1
VOLATILE ORGANIC COMPOUNDS
BUILDING 20, FOURTH FLOOR
PHILLIPSBURG, NJ
RT PROJECT # 6553-08

Sample I.D.								
			RT-1		RT-2			
Compound	CAS Number	Molecular Weight	Results ppmv	Q	Results ppmv	Q	OSHA (PEL)	Reporting Limit(PQL) ppmv at 250mL
Freon 12(Dichlorodifluoromethane)	75-71-8	121	0.00066		0.0007		1000	0.0005
Chloromethane	74-87-3	50	0.00055		0.00061		100	0.0005
Ethanol	64-17-5	46	0.0067		0.0068		1000	0.0015
Freon 11(Trichlorotrifluoroethane)	75-69-4	137	0.0045		0.0057		1000	0.0005
Isopropyl Alcohol(2-Propanol)	67-63-0	60	0.0018		0.0022		400	0.0015
Acetone	67-64-1	58	0.0076		0.0077		1000	0.003
2-Butanone(MEK)	78-93-3	72	0.0013		0.0013		200	0.0005
n-Heptane	142-82-5	100	0.0014		0.0031		500	0.0005
Toluene	108-88-3	92	0.0047		0.011		200	0.0005
Ethylbenzene	100-41-4	106	<0.0005	U	0.00085		100	0.0005
Xylene (para & meta)	1330-20-7	106	0.0012		0.0025		100	0.0005
Xylene (Ortho)	95-47-6	106	<0.0005	U	0.00053		100	0.0005
Styrene	100-42-5	104	0.0015		0.0017		100	0.0005

All results shown in parts per million (ppm)

OSHA (PEL) is the permissible exposure limit,
a time weighted average based on an 8 hour shift.

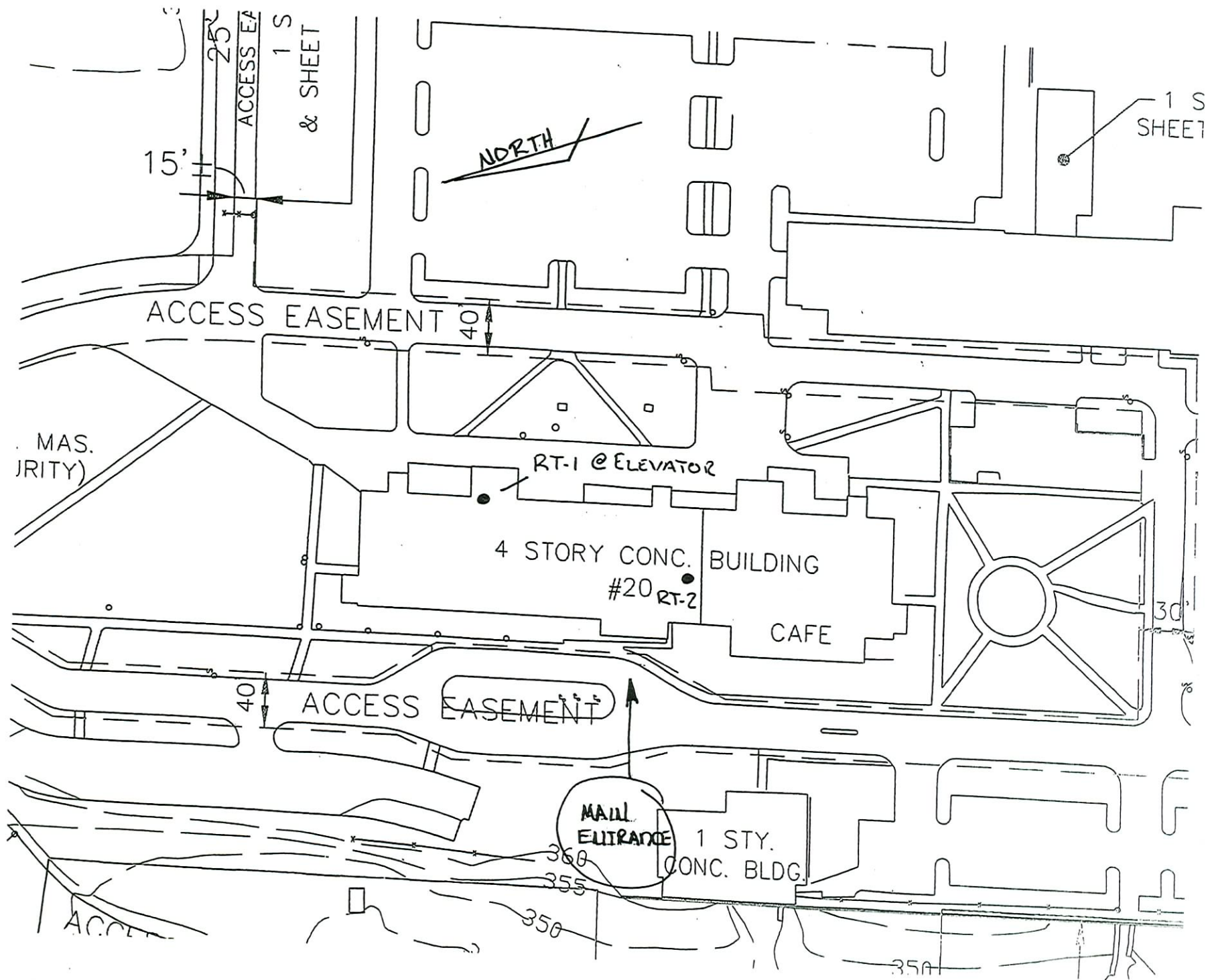
U - Indicates that the compound was undetected

TABLE 2
RADON SURVEY DATA
BUILDING 20, FOURTH FLOOR
PHILLIPSBURG, NJ
RT PROJECT # 6553-08

TEST #	Average Radon Concentration pCi/L
1	1.4
2	1.3
3	1.3
4	1.6
4 - Duplicate	1.5
Near Stairs	1.6
Mech/Elec Rm	1.7
5	1.3
Southside Mid	1.5
Southside Mid	1.6
Old Elev Closet	1.1
6	1.4
Blank	<0.2
7	1.4
8	1.5
9	1.8
10	1.4
11	1.2
12	1.5
13	1.6
14	1.6
15	1.6
16	1.5
17	1.3
18	1.3
19	1.5
401842	1.3
401843	1.5
401844	1.6
401845	1.3
20	1.6
21	1.8
22	1.4
23	1.4
K&N Development	1.5
Rooms 23 & 24	1.6
24	1.3
Next to Stairs	1.9
25	1.5
29	1.1
29-Duplicate	1.3
26	1.4
30	1.1
Northside Mid	1.2
Northside Mid	1.5
27	1.4
28	1.4
Blank	<0.2
31	1.5
Exit North Side	1.3
32	1.4
33	1.2
34	1.2
34 - Duplicate	1.4
35	1.8
Store Room	1.3
Blwn Elec & Mech	1.5
Near Exit	1.3
Coat Room	1.2
Northside	1.3
36	1
37	1.1
37 - Duplicate	1.2
39	1.5
Blank	<0.2
14 -Duplicate	1.5
18 - Duplicate	1.3

ATTACHMENT 1

SITE ADDRESS 942 RTE 22, PHILLIPSBURG, NJ



ATTACHMENT 2

VOLATILE ORGANICS DATA ANALYSIS SUMMARY EPA COMPENDIUM TO-15

Lab Name:	EMSL ANALYTICAL	Air Results for Project:	EMSL 280500407
Lab City:	WESTMONT, NJ	Field ID Number:	RT-1
Instrument ID:	5972-VOA#4	Laboratory ID Number	280500407-2
GC Column:	RTX-502.2 60m 0.25mm 1.4u	Sampling Date:	05/01/05
Acquisition Method:	050305TO.M	Lab File ID:	j7543.d
Calibration Date:	05/03/05	Analysis Date:	05/04/05
Matrix:	Air	Time Acquired:	2:56am
Latest MDL Date:	8/9/2004	Sample Volume(mL):	250
Analyst:	SWV/mh	Dilution Factor:	1
Ids		Can ID:	R3266

Compound	CAS Number	Molecular Weight	Results ppbv	Q	Results ug/m3	Reporting Limit(PQL) ppbv at 250mL
Propylene	115-07-1	42	1.0	U	1.7	1.0
Freon 12(Dichlorodifluoromethane)	75-71-8	121	0.66		3.3	0.50
Freon 114(1,2-Dichlorotetrafluoroethane)	76-14-2	171	0.50	U	3.5	0.50
Chloromethane	74-87-3	50	0.55		1.1	0.50
Vinyl chloride	75-01-4	63	0.50	U	1.3	0.50
1,3 Butadiene	106-99-0	54	0.50	U	1.1	0.50
Bromomethane	74-83-9	95	0.50	U	1.9	0.50
Chloroethane	75-00-3	65	0.50	U	1.3	0.50
Ethanol	64-17-5	46	6.7		13	1.5
Freon 11(Trichlorotrifluoroethane)	75-69-4	137	4.5		25	0.50
Isopropyl Alcohol(2-Propanol)	67-63-0	60	1.8		4.5	1.5
Freon 113(1,1,2-Trichlorotrifluoroethane)	76-13-1	187	0.50	U	3.8	0.50
Acetone	67-64-1	58	7.6		18	3.0
1,1-Dichloroethane	75-35-4	97	0.50	U	2.0	0.50
Carbon disulfide	75-15-0	76	0.50	U	1.6	0.50
Methylene chloride	75-09-2	85	1.5	U	5.2	1.5
Methyl-tert-butyl ether(MTBE)	1634-04-4	88	0.50	U	1.8	0.50
trans-1,2-Dichloroethene	156-60-5	97	0.50	U	2.0	0.50
n-Hexane	110-54-3	86	0.50	U	1.8	0.50
1,1-Dichloroethene	75-34-3	99	0.50	U	2.0	0.50
Vinyl acetate	108-05-4	86	0.50	U	1.8	0.50
2-Butanone(MEK)	78-93-3	72	1.3		3.8	0.50
cis-1,2 Dichloroethene	156-59-2	97	0.50	U	2.0	0.50
Ethyl acetate	141-78-6	88	0.50	U	1.8	0.50
Chloroform	67-66-3	119	0.50	U	2.4	0.50
Tetrahydrofuran	109-99-9	72	0.50	U	1.5	0.50
1,1,1-Trichloroethane	71-55-6	133	0.50	U	2.7	0.50
Cyclohexane	110-82-7	84	0.50	U	1.7	0.50
Carbon tetrachloride	56-23-5	154	0.50	U	3.1	0.50
n-Heptane	142-82-5	100	1.4		5.6	0.50
1,2 Dichloroethane	107-06-2	99	0.50	U	2.0	0.50
Benzene	71-43-2	78	0.50	U	1.6	0.50
Trichloroethene	79-01-6	131	0.50	U	2.7	0.50
1,2 Dichloropropane	78-87-5	113	0.50	U	2.3	0.50
Bromodichloromethane	75-27-4	164	0.50	U	3.3	0.50
1,4 Dioxane	123-91-1	88	0.50	U	1.8	0.50
4-Methyl-2-pentanone(MIBK)	108-10-1	100	0.50	U	2.0	0.50
cis-1,3-Dichloropropene	10061-01-5	111	0.50	U	2.3	0.50
Toluene	108-88-3	92	4.7		18	0.50
trans-1,3-Dichloropropene	10061-02-6	111	0.50	U	2.3	0.50
1,1,2-Trichloroethane	79-00-5	133	0.50	U	2.7	0.50
2-Hexanone(MBK)	591-78-6	100	0.50	U	2.0	0.50
Tetrachloroethene	127-18-4	166	0.50	U	3.4	0.50
Dibromochloromethane	124-48-1	208	0.50	U	4.3	0.50

VOLATILE ORGANICS DATA ANALYSIS SUMMARY EPA COMPENDIUM TO-15

Lab Name:	EMSL ANALYTICAL	Air Results for Project:	EMSL 280500407
Lab City:	WESTMONT, NJ	Field ID Number:	RT-1
Instrument ID:	5972-VOA#4	Laboratory ID Number	280500407-2
GC Column:	RTX-502.2 60m 0.25mm 1.4u	Sampling Date:	05/01/05
Acquisition Method:	050305TO.M	Lab File ID:	j7543.d
Calibration Date:	05/03/05	Analysis Date:	05/04/05
Matrix:	Air	Time Acquired:	2:56am
Latest MDL Date:	8/9/2004	Sample Volume(mL):	250
Analyst:	SWV/mh	Dilution Factor:	1
Ids		Can ID:	R3266

1,2-Dibromoethane	106-93-4	188	0.50	U	3.8	0.50
Chlorobenzene	108-90-7	113	0.50	U	2.3	0.50
Ethylbenzene	100-41-4	106	0.50	U	2.2	0.50
Xylene (para & meta)	1330-20-7	106	1.2		5.2	0.50
Xylene (Ortho)	95-47-6	106	0.50	U	2.2	0.50
Styrene	100-42-5	104	1.5		6.5	0.50
Bromoform	75-25-2	253	0.50	U	5.2	0.50
1,1,2,2-Tetrachloroethane	79-34-5	168	0.50	U	3.4	0.50
4-Ethyltoluene	622-96-8	120	0.50	U	2.5	0.50
1,3,5-Trimethylbenzene	108-67-8	120	0.50	U	2.5	0.50
1,2,4-Trimethylbenzene	95-63-6	120	0.50	U	2.5	0.50
1,3-Dichlorobenzene	541-73-1	147	0.50	U	3.0	0.50
1,4-Dichlorobenzene	106-46-7	147	0.50	U	3.0	0.50
Benzyl chloride	100-44-7	179	0.50	U	3.7	0.50
1,2-Dichlorobenzene	95-50-1	147	0.50	U	3.0	0.50
1,2,4-Trichlorobenzene	120-82-1	182	0.50	U	3.7	0.50
Hexachloro-1,3-butadiene	87-68-3	261	0.50	U	5.3	0.50

Surrogate	Results(ppbv)	True(ppbv)	%Recovery	Limits%
4-Bromofluorobenzene	9.79	10.00	98	70-130

= COMPOUND DETECTED AT REPORTED CONCENTRATION IN PPBV AND UG/M3

U = UNDETECTED

D = DILUTED. REPORTED FROM DILUTION RUN

B = DETECTED IN BLANK

J = DETECTED BELOW PRACTICAL QUANTITATION LEVEL, BUT ABOVE MDL

VOLATILE ORGANICS DATA ANALYSIS SUMMARY EPA COMPENDIUM TO-15

Lab Name:	EMSL ANALYTICAL	Air Results for Project:	EMSL 280500407
Lab City:	WESTMONT, NJ	Field ID Number:	RT-2
Instrument ID:	5972-VOA#4	Laboratory ID Number	280500407-1
GC Column:	RTX-502.2 60m 0.25mm 1.4u	Sampling Date:	05/01/05
Acquisition Method:	050305TO.M	Lab File ID:	j7542.d
Calibration Date:	05/03/05	Analysis Date:	05/04/05
Matrix:	Air	Time Acquired:	2:04AM
Latest MDL Date:	8/9/2004	Sample Volume(mL):	250
Analyst:	SWV/mh	Dilution Factor:	1
Ids		Can ID:	R2679

Compound	CAS Number	Molecular Weight	Results ppbv	Q	Results ug/m3	Reporting Limit(PQL) ppbv at 250mL
Propylene	115-07-1	42	1.0	U	1.7	1.0
Freon 12(Dichlorodifluoromethane)	75-71-8	121	0.70		3.5	0.50
Freon 114(1,2-Dichlorotetrafluoroethane)	76-14-2	171	0.50	U	3.5	0.50
Chloromethane	74-87-3	50	0.61		1.3	0.50
Vinyl chloride	75-01-4	63	0.50	U	1.3	0.50
1,3 Butadiene	106-99-0	54	0.50	U	1.1	0.50
Bromomethane	74-83-9	95	0.50	U	1.9	0.50
Chloroethane	75-00-3	65	0.50	U	1.3	0.50
Ethanol	64-17-5	46	6.8		13	1.5
Freon 11(Trichlorotrifluoroethane)	75-69-4	137	5.7		32	0.50
Isopropyl Alcohol(2-Propanol)	67-63-0	60	2.2		5.5	1.5
Freon 113(1,1,2-Trichlorotrifluoroethane)	76-13-1	187	0.50	U	3.8	0.50
Acetone	67-64-1	58	7.7		18	3.0
1,1-Dichloroethane	75-35-4	97	0.50	U	2.0	0.50
Carbon disulfide	75-15-0	76	0.50	U	1.6	0.50
Methylene chloride	75-09-2	85	1.5	U	5.2	1.5
Methyl-tert-butyl ether(MTBE)	1634-04-4	88	0.50	U	1.8	0.50
trans-1,2-Dichloroethene	156-60-5	97	0.50	U	2.0	0.50
n-Hexane	110-54-3	86	0.50	U	1.8	0.50
1,1-Dichloroethene	75-34-3	99	0.50	U	2.0	0.50
Vinyl acetate	108-05-4	86	0.50	U	1.8	0.50
2-Butanone(MEK)	78-93-3	72	1.3		4.0	0.50
cis-1,2 Dichloroethene	156-59-2	97	0.50	U	2.0	0.50
Ethyl acetate	141-78-6	88	0.50	U	1.8	0.50
Chloroform	67-66-3	119	0.50	U	2.4	0.50
Tetrahydrofuran	109-99-9	72	0.50	U	1.5	0.50
1,1,1-Trichloroethane	71-55-6	133	0.50	U	2.7	0.50
Cyclohexane	110-82-7	84	0.50	U	1.7	0.50
Carbon tetrachloride	56-23-5	154	0.50	U	3.1	0.50
n-Heptane	142-82-5	100	3.1		13	0.50
1,2 Dichloroethane	107-06-2	99	0.50	U	2.0	0.50
Benzene	71-43-2	78	0.50	U	1.6	0.50
Trichloroethene	79-01-6	131	0.50	U	2.7	0.50
1,2 Dichloropropane	78-87-5	113	0.50	U	2.3	0.50
Bromodichloromethane	75-27-4	164	0.50	U	3.3	0.50
1,4 Dioxane	123-91-1	88	0.50	U	1.8	0.50
4-Methyl-2-pentanone(MIBK)	108-10-1	100	0.50	U	2.0	0.50
cis-1,3-Dichloropropene	10061-01-5	111	0.50	U	2.3	0.50
Toluene	108-88-3	92	11		41	0.50
trans-1,3-Dichloropropene	10061-02-6	111	0.50	U	2.3	0.50
1,1,2-Trichloroethane	79-00-5	133	0.50	U	2.7	0.50
2-Hexanone(MBK)	591-78-6	100	0.50	U	2.0	0.50
Tetrachloroethene	127-18-4	166	0.50	U	3.4	0.50
Dibromochloromethane	124-48-1	208	0.50	U	4.3	0.50

VOLATILE ORGANICS DATA ANALYSIS SUMMARY EPA COMPENDIUM TO-15

Lab Name:	EMSL ANALYTICAL	Air Results for Project:	EMSL 280500407
Lab City:	WESTMONT, NJ	Field ID Number:	RT-2
Instrument ID:	5972-VOA#4	Laboratory ID Number	280500407-1
GC Column:	RTX-502.2 60m 0.25mm 1.4u	Sampling Date:	05/01/05
Acquisition Method:	050305TO.M	Lab File ID:	j7542.d
Calibration Date:	05/03/05	Analysis Date:	05/04/05
Matrix:	Air	Time Acquired:	2:04AM
Latest MDL Date:	8/9/2004	Sample Volume(mL):	250
Analyst:	SWV/mh	Dilution Factor:	1
Ids		Can ID:	R2679

1,2-Dibromoethane	106-93-4	188	0.50	U	3.8	0.50
Chlorobenzene	108-90-7	113	0.50	U	2.3	0.50
Ethylbenzene	100-41-4	106	0.85		3.7	0.50
Xylene (para & meta)	1330-20-7	106	2.5		11	0.50
Xylene (Ortho)	95-47-6	106	0.53		2.3	0.50
Styrene	100-42-5	104	1.7		7.3	0.50
Bromoform	75-25-2	253	0.50	U	5.2	0.50
1,1,2,2-Tetrachloroethane	79-34-5	168	0.50	U	3.4	0.50
4-Ethyltoluene	622-96-8	120	0.50	U	2.5	0.50
1,3,5-Trimethylbenzene	108-67-8	120	0.50	U	2.5	0.50
1,2,4-Trimethylbenzene	95-63-6	120	0.50	U	2.5	0.50
1,3-Dichlorobenzene	541-73-1	147	0.50	U	3.0	0.50
1,4-Dichlorobenzene	106-46-7	147	0.50	U	3.0	0.50
Benzyl chloride	100-44-7	179	0.50	U	3.7	0.50
1,2-Dichlorobenzene	95-50-1	147	0.50	U	3.0	0.50
1,2,4-Trichlorobenzene	120-82-1	182	0.50	U	3.7	0.50
Hexachloro-1,3-butadiene	87-68-3	261	0.50	U	5.3	0.50

Surrogate	Results(ppbv)	True(ppbv)	%Recovery	Limits%
4-Bromofluorobenzene	9.98	10.00	100	70-130

= COMPOUND DETECTED AT REPORTED CONCENTRATION IN PPBV AND UG/M3

U = UNDETECTED

D = DILUTED. REPORTED FROM DILUTION RUN

B = DETECTED IN BLANK

J = DETECTED BELOW PRACTICAL QUANTITATION LEVEL, BUT ABOVE MDL



EMSL Analytical, Inc., TO-15 Laboratory, 3 Cooper Street, Westmont, NJ 08108 phone (800)220-3675

TO-15 Facts (and information on how to review your report)

Ethanol, acetone, and isopropanol are commonly found in indoor air. These compounds may have an E flag which indicates their concentration as approximate. Due to the fact they occur commonly, dilutions may or may not be performed. Ethanol is a major compound in alcoholic beverages, perfumes, solvents, paints, and lacquers. Isopropanol is routinely used in disinfectants, quick drying inks, alcohol swabs, and household products. Acetone is found in many products used in the home or office.

Freons are common refrigerants and often seen in air samples.

Benzene, toluene, ethylbenzene, and xylenes are components of gasoline. Toluene and xylenes can be found in solvent based products such as oil based paints.

If you wish to compare your data with NIOSH or OSHA exposure limits, please consult the following links and search for the individual compound of interest.

<http://www.cdc.gov/niosh/nmam/nmammenu.html>

<http://www.osha.gov/dts/sltc/methods/toc.html>

To convert ppbv to ppmv divide ppbv by 1000. To convert $\mu\text{g}/\text{m}^3$ to mg/m^3 divided the $\mu\text{g}/\text{m}^3$ by 1000.

If you have additional questions about your report, please do not hesitate to contact Scott VanEtten at (800)220-3675 ext.1262.



EMSL Analytical, Inc., IH Laboratory, 107 Haddon Avenue, Westmont, NJ 08108 phone (800)220-3675

Note:

The TO-15 data presented in this report is obtained using a modified version of EPA TO-15. The modifications are made to satisfy the requirements of the AIHA for use in industrial hygiene and indoor air quality projects.

Certain State and Federal Programs may have requirements that differ from the written procedures documented in EPA Method TO-15. These requirement differences may include chain of custody procedures, canister cleaning and certification procedures and reporting requirements.

EMSL does not retain TO-15 can contents after the analysis is successfully completed and reported. If your requirements specify samples need to be retained for a specific time period, please advise and we will prepare a cost estimate for this service.

If you have any questions, please do not hesitate to call us.

EMSL ANALYTICAL, INC.
107 Haddon Avenue
Westmont, New Jersey 08108
856-858-4800 Extension 1301
856-858-3502 Fax or
mhowley@emsl.com or svanetten@emsl.com

External

EMSL Project #

PO#

Chain of Custody / Analysis Request Form

Note: Please complete all required information. Incomplete shaded areas may hinder processing samples.

Project Name:

(Weather conditions (if known): Bar. Pressure:

Temp.:

% Humidity:

1. Report to:

RT ENVIRONMENTAL

2. Bill To:

SAME

Contact Person

Name: ROB CAREY

E-mail: RCAREY@RTENV.COM

Tel#: 610/765-1510 x31

FAX #: 610/765-0687

Sample Shipping and Transport Notice

The individual signing this document to relinquish the sample(s) is indicating that the sample(s) were being shipped in compliance with all applicable local, state or Federal as well as international laws, regulations and ordinances. EMSL Analytical, Inc. assumes no liability with respect to sampling, handling or shipping of the samples included in this shipment. The relinquishing signature in addition indicates agreement to hold harmless, defend and indemnify EMSL Analytical, Inc. against any claim, demand, or action, related to the sampling, handling, or shipping of samples. Call the D.O.T. Hotline at (800) 467-4922 for questions about regulations.

3. Sampled by (Signature)

4. # of Samples In Shipment

2

5. Date of Sample Shipment

5/21/05

6. Date/Time Results Needed

5/31/05

Item #	Lab Sample ID	Canister ID	Client Sample ID	Sampling Date / Time		Sampling Date / Time		Regulator ID	Analyses Requested	Field Test Values (ppm)	Canister / Vacuum			
				Start	Stop	Start	Stop				Initial "Hg"	Final "Hg"	Receipt "Hg"	
1		R2679	RT-2	5/11/05	17:00	5/21/05	7:40	R2227812	TO-15					
2		R32666	RT-1	5/11/05	17:05	5/21/05	7:45	R7210600	TO-15					
3														
4														
5														
6														

Sample Type: ☒ Indoor Air Quality ☐ Soil Gas ☐ Vent Gas ☐ Other

Library Search needed: ☐ Yes ☐ No, required if you will need help interpreting your report.

Do you want your results e-mailed?

☐ Yes ☐ No

Relinquished by (print/sign):

Steve Koski

Company: EMSL

Date/Time

4/29/05

17:15

Affixed Custody Seal No.

N/A pick-up

Received by (print/sign):

CHRIS WARD

Company:

Date/Time

5/30/05

15:30

Was Custody Seal Broken? ☐ Yes ☐ No

Relinquished by (print/sign):

Received by (print/sign):

Company:

Date/Time

Affixed Custody Seal No.

Relinquished by (print/sign):

Received by (print/sign):

Company:

Date/Time

Was Custody Seal Broken? ☐ Yes ☐ No

Relinquished by (print/sign):

Received by (print/sign):

Company:

Date/Time

Was Custody Seal Broken? ☐ Yes ☐ No

Please indicate Turn

☐ Standard 5-10 Days*

☐ *96-Hour

☐ *72-

☐ *48-Hour

Date/Time

5/24/05

17:10

Was Custody Seal Broken? ☐ Yes ☐ No

Around Time needed:

*TAT subject to laboratory workload. A limited amount of 5 day TAT can be accepted by laboratory

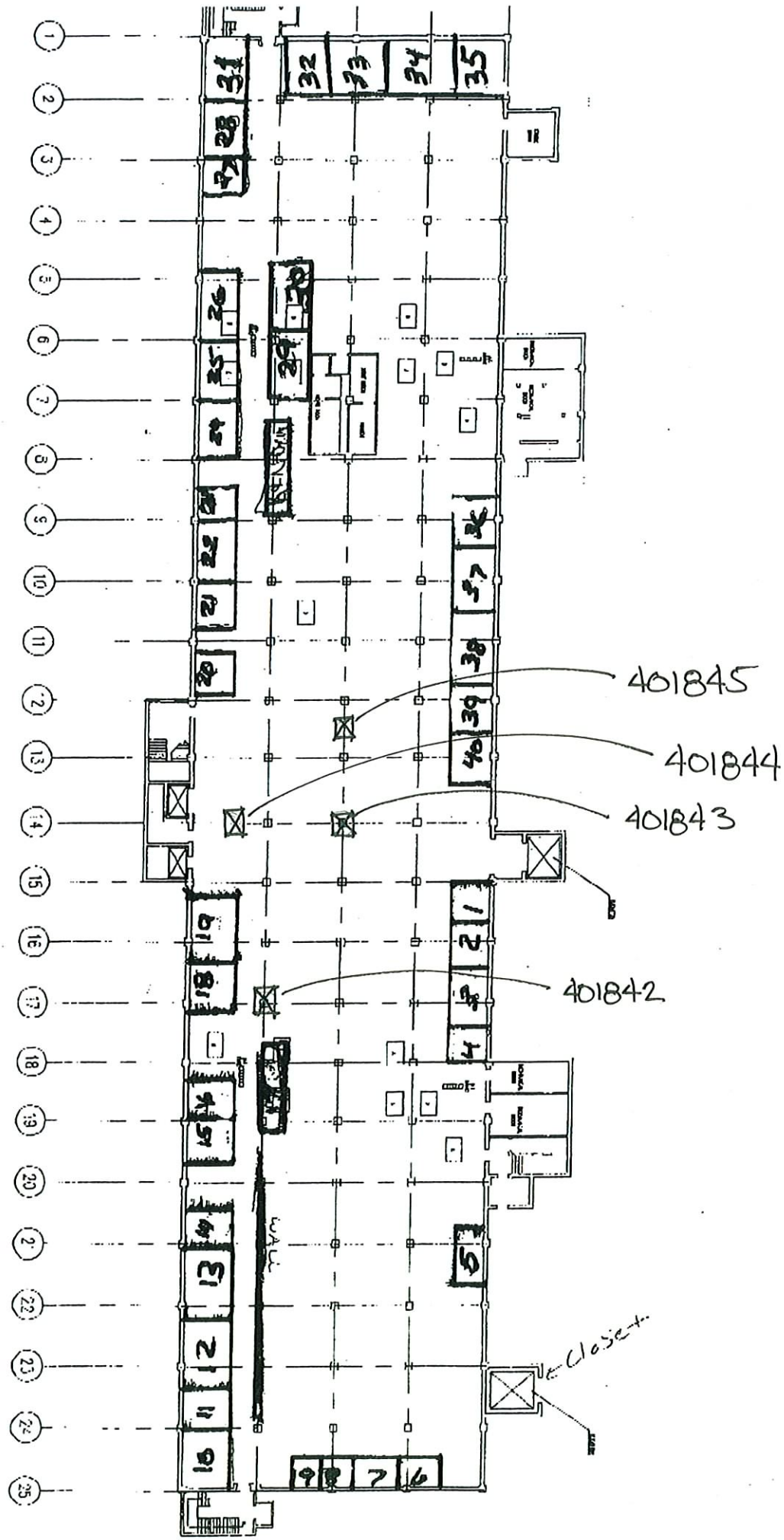
Comments:

Please indicate reporting requirements:

1) Results only

2) Other (Attach a copy of requirements)

ATTACHMENT 3



ATTACHMENT 4



RAdata, Inc.
27 Ironia Road, Unit 2
Flanders, NJ 07836
973-927-7303
Fax 973-927-4980

May 09, 2005

RT Environmental Services
Attn: Rob Carey
215 West Church Street
King of Prussia, PA 19406

Radon Test Results/Information:

File No. 4th floor

Location Name: Phillipsburg Commercial Building

Test Location: 942 Route 22 - Building #20, Phillipsburg County: Warren

Municipality: Phillipsburg Town

The purpose of this test was: Screening

Test #	Test Date, Time	Test Device	Location	Laboratory*	Avg. Radon Concentration
Unit #: 1					
401816-234263	5/3/2005, 11:30 - 5/5/2005, 12:34	Charcoal Canister	Above Third Floor door wall	Radata, Inc. 14006	1.4 pCi/L
Unit #: 2					
401817-234929	5/3/2005, 11:31 - 5/5/2005, 12:34	Charcoal Canister	Above Third Floor mid left wall	Radata, Inc. 14006	1.3 pCi/L
Unit #: 3					
401818-234932	5/3/2005, 11:32 - 5/5/2005, 12:35	Charcoal Canister	Above Third Floor door	Radata, Inc. 14006	1.3 pCi/L
Unit #: 4					
401819-234933	5/3/2005, 11:38 - 5/5/2005, 12:36	Charcoal Canister	Above Third Floor door	Radata, Inc. 14006	1.6 pCi/L
Unit #: 4					
Duplicate of #401819					
401820-234936	5/3/2005, 11:40 - 5/5/2005, 12:36	Charcoal Canister	Above Third Floor door	Radata, Inc. 14006	1.5 pCi/L
Unit #: Near Stairs					
401821-234937	5/3/2005, 11:42 - 5/5/2005, 12:37	Charcoal Canister	Above Third Floor left of door	Radata, Inc. 14006	1.6 pCi/L
Unit #: Mechanical /Electric room					
401822-234940	5/3/2005, 11:45 - 5/5/2005, 12:37	Charcoal Canister	Above Third Floor midway between	Radata, Inc. 14006	1.7 pCi/L
Unit #: 5					
401823-234941	5/3/2005, 11:50 - 5/5/2005, 12:38	Charcoal Canister	Above Third Floor right mid wall	Radata, Inc. 14006	1.3 pCi/L
Unit #: Southside mid					
401824-234943	5/3/2005, 11:55 - 5/5/2005, 12:39	Charcoal Canister	Above Third Floor mid	Radata, Inc. 14006	1.5 pCi/L
Unit #: Southside mid					
401825-234944	5/3/2005, 11:55 - 5/5/2005, 12:40	Charcoal Canister	Above Third Floor mid near bathroom	Radata, Inc. 14006	1.6 pCi/L

Unit #: Old Elevate Closet

401826- 234946	5/3/2005, 11:57 - 5/5/2005, 12:38	Charcoal Canister	Above Third Floor middle	Radata, Inc. 14006	1.1 pCi/L
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Unit #: 6

401827- 234947	5/3/2005, 12:00 - 5/5/2005, 12:41	Charcoal Canister	Above Third Floor front mid wall	Radata, Inc. 14006	1.4 pCi/L
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Unit #: 6**Blank of #401827**

401828- 234948	5/3/2005, 12:00 - 5/5/2005, 12:41	Charcoal Canister	Above Third Floor front left mid wall	Radata, Inc. 14006	< 0.2 pCi/L
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Unit #: 7

401829- 234950	5/3/2005, 12:03 - 5/5/2005, 12:42	Charcoal Canister	Above Third Floor door	Radata, Inc. 14006	1.4 pCi/L
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Unit #: 8

401830- 234951	5/3/2005, 12:05 - 5/5/2005, 12:43	Charcoal Canister	Above Third Floor door	Radata, Inc. 14006	1.5 pCi/L
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Unit #: 9

401831- 234952	5/3/2005, 12:08 - 5/5/2005, 12:43	Charcoal Canister	Above Third Floor door	Radata, Inc. 14006	1.8 pCi/L
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Unit #: 10

401832- 234955	5/3/2005, 12:10 - 5/5/2005, 12:44	Charcoal Canister	Above Third Floor door	Radata, Inc. 14006	1.4 pCi/L
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Unit #: 11

401833- 234957	5/3/2005, 12:11 - 5/5/2005, 12:45	Charcoal Canister	Above Third Floor left wall	Radata, Inc. 14006	1.2 pCi/L
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Unit #: 12

401834- 234958	5/3/2005, 12:12 - 5/5/2005, 12:45	Charcoal Canister	Above Third Floor left mid	Radata, Inc. 14006	1.5 pCi/L
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Unit #: 13

401835- 234959	5/3/2005, 12:13 - 5/5/2005, 12:46	Charcoal Canister	Above Third Floor front mid wall	Radata, Inc. 14006	1.6 pCi/L
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Unit #: 14

401836- 234961	5/3/2005, 12:14 - 5/5/2005, 12:46	Charcoal Canister	Above Third Floor door	Radata, Inc. 14006	1.6 pCi/L
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Unit #: 15

401837- 234962	5/3/2005, 12:15 - 5/5/2005, 12:48	Charcoal Canister	Above Third Floor door	Radata, Inc. 14006	1.6 pCi/L
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Unit #: 16

401838- 234963	5/3/2005, 12:16 - 5/5/2005, 12:48	Charcoal Canister	Above Third Floor door	Radata, Inc. 14006	1.5 pCi/L
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Unit #: 17

401839- 234964	5/3/2005, 12:18 - 5/5/2005, 12:49	Charcoal Canister	Above Third Floor left door	Radata, Inc. 14006	1.3 pCi/L
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Unit #: 18

401840- 234966	5/3/2005, 12:20 - 5/5/2005, 12:50	Charcoal Canister	Above Third Floor door	Radata, Inc. 14006	1.3 pCi/L
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Unit #: 19

401841- 234967	5/3/2005, 12:21 - 5/5/2005, 12:51	Charcoal Canister	Above Third Floor door	Radata, Inc. 14006	1.5 pCi/L
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401842- 234969	5/3/2005, 12:23 - 5/5/2005, 12:52	Charcoal Canister	Above Third Floor southside pillar 17	Radata, Inc. 14006	1.3 pCi/L
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401843-234970	5/3/2005, 12:24 - 5/5/2005, 12:53	Charcoal Canister	Above Third Floor middle center	Radata, Inc. 14006	1.5 pCi/L
401844-234971	5/3/2005, 12:26 - 5/5/2005, 12:54	Charcoal Canister	Above Third Floor outside elevator	Radata, Inc. 14006	1.6 pCi/L
401845-234973	5/3/2005, 12:28 - 5/5/2005, 12:55	Charcoal Canister	Above Third Floor northside pillar 12&13	Radata, Inc. 14006	1.3 pCi/L
Unit #: 20					
401846-234974	5/3/2005, 12:30 - 5/5/2005, 12:55	Charcoal Canister	Above Third Floor door	Radata, Inc. 14006	1.6 pCi/L
Unit #: 21					
401847-234975	5/3/2005, 12:30 - 5/5/2005, 12:56	Charcoal Canister	Above Third Floor door	Radata, Inc. 14006	1.8 pCi/L
Unit #: 22					
401848-234977	5/3/2005, 12:32 - 5/5/2005, 12:57	Charcoal Canister	Above Third Floor door	Radata, Inc. 14006	1.4 pCi/L
Unit #: 23					
401850-234978	5/3/2005, 12:34 - 5/5/2005, 12:58	Charcoal Canister	Above Third Floor door	Radata, Inc. 14006	1.4 pCi/L
Unit #: K&N Development					
401851-234980	5/3/2005, 12:37 - 5/5/2005, 12:59	Charcoal Canister	Above Third Floor left on table	Radata, Inc. 14006	1.5 pCi/L
Unit #: Rooms 23 & 24					
401852-234981	5/3/2005, 12:40 - 5/5/2005, 13:00	Charcoal Canister	Above Third Floor right side of window	Radata, Inc. 14006	1.6 pCi/L
Unit #: 24					
401853-234982	5/3/2005, 12:41 - 5/5/2005, 13:01	Charcoal Canister	Above Third Floor door	Radata, Inc. 14006	1.3 pCi/L
Unit #: Next to Stairs					
401854-234984	5/3/2005, 12:43 - 5/5/2005, 12:56	Charcoal Canister	Above Third Floor next to door (right)	Radata, Inc. 14006	1.9 pCi/L
Unit #: 25					
401855-234985	5/3/2005, 12:45 - 5/5/2005, 13:02	Charcoal Canister	Above Third Floor right front wall	Radata, Inc. 14006	1.5 pCi/L
Unit #: 29					
401856-234987	5/3/2005, 12:46 - 5/5/2005, 13:05	Charcoal Canister	Above Third Floor Middle	Radata, Inc. 14006	1.1 pCi/L
Unit #: 29					
Duplicate of #401856					
401857-234989	5/3/2005, 12:47 - 5/5/2005, 13:03	Charcoal Canister	Above Third Floor Middle	Radata, Inc. 14006	1.3 pCi/L
Unit #: 26					
401858-235007	5/3/2005, 12:50 - 5/5/2005, 13:04	Charcoal Canister	Above Third Floor door	Radata, Inc. 14006	1.4 pCi/L
Unit #: 30					
401859-235011	5/3/2005, 12:52 - 5/5/2005, 13:04	Charcoal Canister	Above Third Floor door	Radata, Inc. 14006	1.1 pCi/L
Unit #: Northside Mid					
401860-235012	5/3/2005, 12:55 - 5/5/2005, 13:05	Charcoal Canister	Above Third Floor pillars 5 & 6	Radata, Inc. 14006	1.2 pCi/L

Unit #: Northside Mid					
401861-235014	5/3/2005, 12:57 - 5/5/2005, 13:06	Charcoal Canister	Above Third Floor pill2653 & S	Radata, Inc. 14006	1.5 pCi/L
Unit #: 27					
401862-235015	5/3/2005, 13:00 - 5/5/2005, 13:06	Charcoal Canister	Above Third Floor door	Radata, Inc. 14006	1.4 pCi/L
Unit #: 28					
401864-235017	5/3/2005, 13:10 - 5/5/2005, 13:07	Charcoal Canister	Above Third Floor door	Radata, Inc. 14006	1.4 pCi/L
Unit #: 28					
Blank of #401864					
401865-235019	5/3/2005, 13:12 - 5/5/2005, 13:07	Charcoal Canister	Above Third Floor door	Radata, Inc. 14006	< 0.2 pCi/L
Unit #: 31					
401866-235021	5/3/2005, 13:15 - 5/5/2005, 13:08	Charcoal Canister	Above Third Floor door	Radata, Inc. 14006	1.5 pCi/L
Unit #: Exit North side					
401867-235025	5/3/2005, 13:17 - 5/5/2005, 13:08	Charcoal Canister	Above Third Floor left of door	Radata, Inc. 14006	1.3 pCi/L
Unit #: 32					
401868-235026	5/3/2005, 13:18 - 5/5/2005, 13:09	Charcoal Canister	Above Third Floor door	Radata, Inc. 14006	1.4 pCi/L
Unit #: 33					
401869-235028	5/3/2005, 13:20 - 5/5/2005, 13:09	Charcoal Canister	Above Third Floor door	Radata, Inc. 14006	1.2 pCi/L
Unit #: 34					
401870-235029	5/3/2005, 13:21 - 5/5/2005, 13:10	Charcoal Canister	Above Third Floor left mid wall	Radata, Inc. 14006	1.2 pCi/L
Unit #: 34					
Duplicate of #401870					
401871-235030	5/3/2005, 13:23 - 5/5/2005, 13:10	Charcoal Canister	Above Third Floor left mid wall	Radata, Inc. 14006	1.4 pCi/L
Unit #: 35					
401872-235031	5/3/2005, 13:23 - 5/5/2005, 13:11	Charcoal Canister	Above Third Floor door	Radata, Inc. 14006	1.8 pCi/L
Unit #: Store Room					
401873-235032	5/3/2005, 13:25 - 5/5/2005, 13:11	Charcoal Canister	Above Third Floor center	Radata, Inc. 14006	1.3 pCi/L
Unit #: Between Electrical & Mechanical					
401874-235033	5/3/2005, 13:26 - 5/5/2005, 13:12	Charcoal Canister	Above Third Floor center	Radata, Inc. 14006	1.5 pCi/L
Unit #: Near Exit					
401875-235034	5/3/2005, 13:28 - 5/5/2005, 13:13	Charcoal Canister	Above Third Floor left of door	Radata, Inc. 14006	1.3 pCi/L
Unit #: Coat Room					
401876-235035	5/3/2005, 13:30 - 5/5/2005, 13:14	Charcoal Canister	Above Third Floor center	Radata, Inc. 14006	1.2 pCi/L
Unit #: Northside					
401877-235036	5/3/2005, 13:32 - 5/5/2005, 13:14	Charcoal Canister	Above Third Floor between 9 & 10	Radata, Inc. 14006	1.3 pCi/L

Unit #: 36

401878- 235038	5/3/2005, 13:32 - 5/5/2005, 13:15	Charcoal Canister	Above Third Floor left mid wall	Radata, Inc. 14006	1.0 pCi/L
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Unit #: 37

401879- 235040	5/3/2005, 13:32 - 5/5/2005, 13:16	Charcoal Canister	Above Third Floor door	Radata, Inc. 14006	1.1 pCi/L
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Unit #: 37**Duplicate of #401879**

401880- 235041	5/3/2005, 13:31 - 5/5/2005, 13:16	Charcoal Canister	Above Third Floor door	Radata, Inc. 14006	1.2 pCi/L
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Unit #: 39

401881- 235042	5/3/2005, 13:33 - 5/5/2005, 13:17	Charcoal Canister	Above Third Floor desk back center	Radata, Inc. 14006	1.5 pCi/L
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Unit #: 39**Blank of #401881**

401882- 235043	5/3/2005, 13:35 - 5/5/2005, 13:17	Charcoal Canister	Above Third Floor desk back center	Radata, Inc. 14006	< 0.2 pCi/L
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Unit #: 14**Duplicate of #401836**

401883- 235045	5/3/2005, 13:40 - 5/5/2005, 12:47	Charcoal Canister	Above Third Floor door	Radata, Inc. 14006	1.5 pCi/L
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Unit #: 18**Duplicate of #401840**

401884- 235047	5/3/2005, 13:45 - 5/5/2005, 12:50	Charcoal Canister	Above Third Floor door	Radata, Inc. 14006	1.3 pCi/L
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* Certified Radon Laboratory used to analyze the test device.

Test Placed/Picked Up By: Licensed measurement technician; NJ DEP License # MET11243/MET11243

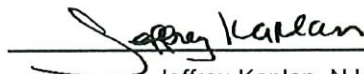
The results of this measurement provide an idea of the average concentration in the area of the structure tested during this testing period. The actual risk depends upon the amount of time you are exposed to this concentration. The recommended remedial action guidance level from the US EPA is currently 4.0 pCi/L. If you would like additional information on radon, we recommend that you contact the New Jersey State Department of Environmental Protection at their toll-free hotline, 1-800-648-0394.

[The testing and analytical methods for the above radon concentration(s) were performed in accordance with established United States Environmental Protection Agency (USEPA) protocols for measurement methodology. NorthEast Environmental Testing/RAdata, Inc., makes no recommendations, representations, or warranties other than as specifically set forth in this report and shall not be liable for any action or consequences of any action taken in connection with or in reliance on this report. We are not responsible for any financial or health consequences or subsequent action or inaction by the client or its representatives.]

Important Notice:

"This notice is provided to you by an organization or individual certified by the New Jersey Department of Environmental Protection to perform radon and/or radon progeny measurements. N.J.S.A. 26:2D-73 requires that no certified person disclose to any individual, except the Department of Environmental Protection or (on request, to) the Department of Health, the address or owner of a nonpublic building that the person has tested or treated for the presence of radon gas and radon progeny, unless the owner of the building waives, in writing, this right of confidentiality. In the case of a prospective sale of a building which has been tested for radon gas and/or radon progeny, the seller shall provide the buyer, at the time the contract of sale is entered into, with a copy of the results of that test and evidence of any subsequent mitigation or treatment, and any prospective buyer who contracts for testing shall have the right to receive the results of that testing. Any questions, comments, or complaints regarding the persons performing these measurements, or related mitigation, or safeguarding services should be directed to the New Jersey Department of Environmental Protection. Attention: Radon Section, Bureau of Environmental Radiation (1-800-648-0394)."

As PER N.J.S.A. 26:D-73, we are required as a licensed radon measurement business to supply a copy of written test results to both the client who hires us, as well as the individual who owns the property tested. Therefore, please be advised that a copy of these test results will automatically be sent to the owner of the tested residence.



Jeffery Kaplan, NJ Licensed Measurement Specialist #MES11186

ATTACHMENT 3

NJDEP Indoor Air Building Survey & Sampling Forms



New Jersey Department of Environmental Protection

INDOOR AIR BUILDING SURVEY
& SAMPLING FORM

Survey Completed by: Scott Mikaelian / ENSR Date: May 31, 2005

Site Name: Former Ingersoll Rand Case #: NJD002395382/99685/2000050/2004306

Part I - Occupants

Building Address: Building 7; 942 Memorial Parkway, Warren County, Phillipsburg, NJ

Property Contact: Dave Zimmerman/Preferred Real Estate Inc. (PREI) Owner Renter/other: _____

Contact's Phone: home () _____ work (908) 387-1909 cell (610) 637-0654

Building occupants: Children under age 13 0 Children age 13-18 0 Adults (workers) ~10

Part II - Building Characteristics

Building type: single-family residential / multi-family residential / office / strip mall / commercial / industrial

Describe building: Single story industrial

Number of floors - below grade: 0 (full basement / crawl space / slab) at or above grade: 1

Basement size: N/A ft² Basement floor: concrete / dirt / floating / other (specify): N/A

Foundation type: poured concrete / cinder blocks / stone / other (specify) _____

Type of ground cover around outside of building: grass / concrete / asphalt / other (specify) some gravel

Basement sump present? Yes / No Sump pump? Yes / No

Type of heating system (circle all that apply):

hot air circulation hot air radiation wood steam radiation hot water radiation
kerosene heater electric baseboard heat pump other (specify): _____

Type of ventilation system (circle all that apply):

central air conditioning mechanical fans bathroom ventilation fans
individual air conditioning units kitchen range hood fan other (specify): _____

Type of fuel utilized (circle all that apply):

Natural gas / electric / fuel oil / wood / coal / solar / kerosene / outside (fresh) air intake

Septic system? Yes / Yes (but not used) / No Irrigation/private well? Yes / Yes (but not used) / No

Existing subsurface depressurization (radon) system in place? Yes / No and running? Yes / No N/A

Part III - Outside Contaminant Sources

NJDEP Comprehensive Site List (1000-ft. radius): Property is Former Ingersoll Rand Facility

Other stationary sources nearby (gas stations, emission stacks, etc.): Paint spray booth in contiguous Building 8

Heavy vehicular traffic nearby (or other mobile sources): Periodic truck/bus/auto traffic throughout facility

Part IV – Indoor Contaminant Sources

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor & room), and whether the item was removed from the building 48 hours prior to indoor air sampling event.

Potential Sources	Location(s)	Removed Prior to Sampling? (Yes / No / NA)
Gasoline storage cans		
Gas-powered equipment		
Kerosene storage cans		
Paints / thinners / strippers	Throughout	No
Cleaning solvents	Throughout	No
Oven cleaners		
Carpet / upholstery cleaners		
Other house cleaning products		
Moth balls		
Polishes / waxes	Throughout	No
Insecticides		
Furniture / floor polish		
Nail polish / polish remover		
Hairspray		
Cologne / perfume		
Air fresheners		
Fuel tank (inside building)		NA
Wood stove or fireplace		NA
New furniture / upholstery		
New carpeting / flooring		NA
Recent painting in building?	Spray booth in contiguous Building 8	NA
Hobbies - glues, paints, etc.	Throughout	No

Part V – Miscellaneous Items

Do any occupants of the building smoke? NOT INSIDE BUILDING Yes / No How often? _____

Has anyone smoked within the building within the last 48 hours? Yes / No

Does the building have an attached garage? Yes / No

If so, is a car usually parked in the garage? Yes / No

Do the occupants of the building have their clothes dry-cleaned? UNLIKELY Yes / No

When were dry-cleaned clothes last brought into the building? UNKNOWN

Have the occupants ever noticed any unusual odors in the building? Yes / No

Describe (with location): _____

Any known spills of a chemical immediately outside or inside the building? Yes / No

Describe (with location): See SI/RI/RAW dated June 2005

Have any pesticides/herbicides been applied around the building foundation or in the yard/gardens? Yes / No

If so, when and which chemicals? _____

Part VI – Sampling InformationSample Technician: Scott Mikaelian Phone number: (732) 981 - 0200 X3051Sampler Type: Tedlar / Sorbent / Canister Analytical Method: TO-15 / TO-17 / other: Laboratory: ENSR Air Toxics Laboratory NJ Certified Lab? Yes / No

Sample #	Floor	Room	Canister / Tube #	Regulator ID #	Sample Start Date / Time	Sample End Date / Time
IAQ-3-7	1	Main shop	C125	A043	6/4/05 11:	6/5/05 10:57

Sample location(s):

Provide Drawing of Sample Location(s) in BuildingSample # IAQ - 3-7

See Figure X

Sample # - Sample # - Did the occupants **not** follow any of the “Instructions
for Residents” directions? Yes / NoIf so, describe modifications: Active facility,
although business was not operating during
weekend. Various chemicals, solvents, etc.
utilized**Part VII - Weather Conditions**Outside temperature at time of sampling: 60-90 °FExpected high temperature: 90 °FExpected low temperature: 60 °FWas there significant precipitation within 12 hours of (or during) the sampling event? Yes / NoDescribe the general weather conditions: Rained night of June 3; weather was hot and humid during sampling**Part VIII – General Observations**

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process.

Although business (pump parts manufacture/finishing) was inactive during weekend sampling event, there was a great
deal of chemicals throughout facility utilized in the business. In addition, Building 8 contains a paint spray booth which
was not operating over the weekend.



New Jersey Department of Environmental Protection

INDOOR AIR BUILDING SURVEY
& SAMPLING FORM

Survey Completed by: Scott Mikaelian / ENSR Date: May 31, 2005

Site Name: Former Ingersoll Rand Case #: NJD002395382/99685/2000050/2004306

Part I - Occupants

Building Address: Building 8; 942 Memorial Parkway, Warren County, Phillipsburg, NJ

Property Contact: Dave Zimmerman/Preferred Real Estate Inc. (PREI) Owner Renter/other: _____

Contact's Phone: home () _____ work (908) 387-1909 cell (610) 637-0654

Building occupants: Children under age 13 0 Children age 13-18 0 Adults (workers) ~8

Part II - Building Characteristics

Building type: single-family residential / multi-family residential / office / strip mall / commercial / industrial

Describe building: Single story industrial/shop with offices

Number of floors - below grade: 0 (full basement / crawl space / slab) at or above grade: 1

Basement size: N/A ft² Basement floor: concrete / dirt / floating / other (specify): N/A

Foundation type: poured concrete / cinder blocks / stone / other (specify) _____

Type of ground cover around outside of building: grass / concrete / asphalt / other (specify) some gravel

Basement sump present? Yes / No Sump pump? Yes / No

Type of heating system (circle all that apply):

hot air circulation hot air radiation wood steam radiation hot water radiation
kerosene heater electric baseboard heat pump other (specify): _____

Type of ventilation system (circle all that apply):

central air conditioning mechanical fans bathroom ventilation fans
individual air conditioning units kitchen range hood fan other (specify): _____

Type of fuel utilized (circle all that apply):

Natural gas / electric / fuel oil / wood / coal / solar / kerosene / outside (fresh) air intake

Septic system? Yes / Yes (but not used) / No Irrigation/private well? Yes / Yes (but not used) / No

Existing subsurface depressurization (radon) system in place? Yes / No and running? Yes / No N/A

Part III - Outside Contaminant Sources

NJDEP Comprehensive Site List (1000-ft. radius): Property is Former Ingersoll Rand Facility

Other stationary sources nearby (gas stations, emission stacks, etc.): Paint Spray Booth in main shop area

Heavy vehicular traffic nearby (or other mobile sources): Periodic truck/bus/auto traffic throughout facility

Part IV – Indoor Contaminant Sources

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor & room), and whether the item was removed from the building 48 hours prior to indoor air sampling event.

Potential Sources	Location(s)	Removed Prior to Sampling? (Yes / No / NA)
Gasoline storage cans		
Gas-powered equipment		
Kerosene storage cans		
Paints / thinners / strippers	Throughout	No
Cleaning solvents	Throughout	No
Oven cleaners		
Carpet / upholstery cleaners		
Other house cleaning products		
Moth balls		
Polishes / waxes	Throughout	No
Insecticides		
Furniture / floor polish		
Nail polish / polish remover		
Hairspray		
Cologne / perfume		
Air fresheners		
Fuel tank (inside building)		NA
Wood stove or fireplace		NA
New furniture / upholstery		
New carpeting / flooring		NA
Recent painting in building?	Paint spray booth in main shop used during week	NA
Hobbies - glues, paints, etc.	Throughout	No

Part V – Miscellaneous Items

Do any occupants of the building smoke? NOT INSIDE BUILDING Yes / No How often? _____

Has anyone smoked within the building within the last 48 hours? Yes / No

Does the building have an attached garage? Yes / No

If so, is a car usually parked in the garage? Yes / No

Do the occupants of the building have their clothes dry-cleaned? UNLIKELY Yes / No

When were dry-cleaned clothes last brought into the building? UNKNOWN

Have the occupants ever noticed any unusual odors in the building? Yes / No

Describe (with location): _____

Any known spills of a chemical immediately outside or inside the building? Yes / No

Describe (with location): See SI/RI/RAW dated June 2005

Have any pesticides/herbicides been applied around the building foundation or in the yard/gardens? Yes / No

If so, when and which chemicals? _____

Part VI – Sampling InformationSample Technician: Scott Mikaelian Phone number: (732) 981 - 0200 X3051Sampler Type: Tedlar / Sorbent / Canister Analytical Method: TO-15 / TO-17 / other: _____Laboratory: ENSR Air Toxics Laboratory NJ Certified Lab? Yes / No

Sample #	Floor	Room	Canister / Tube #	Regulator ID #	Sample Start Date / Time	Sample End Date / Time
IAQ-2-8	1	Zimmerman office	94	A021	6/4/05 11:	6/5/05 10:55

Sample location(s):

Provide Drawing of Sample Location(s) in BuildingSample # IAQ - 2-8

See Figure X

Sample # _____ - _____

Sample # _____ - _____

Did the occupants **not** follow any of the “Instructions for Residents” directions? Yes / NoIf so, describe modifications: Active facility, although business was not operating during weekend. Various chemicals, solvents, etc. utilized**Part VII - Weather Conditions**Outside temperature at time of sampling: 60-90 °FExpected high temperature: 90 °FExpected low temperature: 60 °FWas there significant precipitation within 12 hours of (or during) the sampling event? Yes / NoDescribe the general weather conditions: Rained night of June 3; weather was hot and humid during sampling**Part VIII – General Observations**

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process.

Sample was collected from office space inside Building 8. The Building 7 sample may be more representative of IAQ inside shop area.



New Jersey Department of Environmental Protection

INDOOR AIR BUILDING SURVEY
& SAMPLING FORM

Survey Completed by: Scott Mikaelian / ENSR Date: May 31, 2005

Site Name: Former Ingersoll Rand Case #: NJD002395382/99685/2000050/2004306

Part I - Occupants

Building Address: Building 9; 942 Memorial Parkway, Warren County, Phillipsburg, NJ

Property Contact: Dave Zimmerman/Preferred Real Estate Inc. (PREI) Owner Renter/other: _____

Contact's Phone: home () _____ work (908) 387-1909 cell (610) 637-0654

Building occupants: Children under age 13 0 Children age 13-18 0 Adults (workers) 0

Part II - Building Characteristics

Building type: single-family residential / multi-family residential / office / strip mall / commercial / industrial

Describe building: Single story vacant - former industrial

Number of floors - below grade: 0 (full basement / crawl space / slab) at or above grade: 1

Basement size: N/A ft² Basement floor: concrete / dirt / floating / other (specify): N/A

Foundation type: poured concrete / cinder blocks / stone / other (specify) _____

Type of ground cover around outside of building: grass / concrete / asphalt / other (specify) _____

Basement sump present? Yes / No Sump pump? Yes / No

Type of heating system (circle all that apply):

hot air circulation hot air radiation wood steam radiation hot water radiation
kerosene heater electric baseboard heat pump other (specify): _____

Type of ventilation system (circle all that apply):

central air conditioning mechanical fans bathroom ventilation fans
individual air conditioning units kitchen range hood fan other (specify): _____

Type of fuel utilized (circle all that apply):

Natural gas / electric / fuel oil / wood / coal / solar / kerosene / outside (fresh) air intake

Septic system? Yes / Yes (but not used) / No Irrigation/private well? Yes / Yes (but not used) / No

Existing subsurface depressurization (radon) system in place? Yes / No and running? Yes / No N/A

Part III - Outside Contaminant Sources

NJDEP Comprehensive Site List (1000-ft. radius): Property is Former Ingersoll Rand Facility

Other stationary sources nearby (gas stations, emission stacks, etc.): _____

Heavy vehicular traffic nearby (or other mobile sources): Periodic truck/bus/auto traffic throughout facility

Part IV – Indoor Contaminant Sources

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor & room), and whether the item was removed from the building 48 hours prior to indoor air sampling event.

Potential Sources	Location(s)	Removed Prior to Sampling? (Yes / No / NA)
Gasoline storage cans	Four cans near construction trailer parked inside area	No
Gas-powered equipment		
Kerosene storage cans		
Paints / thinners / strippers		
Cleaning solvents		
Oven cleaners		
Carpet / upholstery cleaners		
Other house cleaning products		
Moth balls		
Polishes / waxes		
Insecticides		
Furniture / floor polish		
Nail polish / polish remover		
Hairspray		
Cologne / perfume		
Air fresheners		
Fuel tank (inside building)		NA
Wood stove or fireplace		NA
New furniture / upholstery		
New carpeting / flooring		NA
Recent painting in building?		NA
Hobbies - glues, paints, etc.		

Part V – Miscellaneous Items

Do any occupants of the building smoke? NOT INSIDE BUILDING Yes / No How often? _____

Has anyone smoked within the building within the last 48 hours? Yes / No

Does the building have an attached garage? Yes / No

If so, is a car usually parked in the garage? Yes / No

Do the occupants of the building have their clothes dry-cleaned? VACANT Yes / No

When were dry-cleaned clothes last brought into the building? _____

Have the occupants ever noticed any unusual odors in the building? Yes / No

Describe (with location): _____

Any known spills of a chemical immediately outside or inside the building? Yes / No

Describe (with location): See SI/RI/RAW dated June 2005

Have any pesticides/herbicides been applied around the building foundation or in the yard/gardens? Yes / No

If so, when and which chemicals? _____

Part VI – Sampling InformationSample Technician: Scott Mikaelian Phone number: (732) 981 - 0200 X3051Sampler Type: Tedlar / Sorbent / Canister Analytical Method: TO-15 / TO-17 / other: _____Laboratory: ENSR Air Toxics Laboratory NJ Certified Lab? Yes / No

Sample #	Floor	Room	Canister / Tube #	Regulator ID #	Sample Start Date / Time	Sample End Date / Time
IAQ-4-9	1	Main shop	4465	A011	6/4/05 11:	6/5/05 11:06

Sample location(s):

Provide Drawing of Sample Location(s) in BuildingSample # IAQ - 4-9

See Figure X

Sample # _____ - _____

Sample # _____ - _____

Did the occupants **not** follow any of the “Instructions
for Residents” directions? Yes / NoIf so, describe modifications: Gas cans present
inside.**Part VII - Weather Conditions**Outside temperature at time of sampling: 60-90 °FExpected high temperature: 90 °FWas there significant precipitation within 12 hours of (or during) the sampling event? Yes / NoDescribe the general weather conditions: Rained night of June 3; weather was hot and humid during sampling**Part VIII – General Observations**Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process.
Area was vacant during sampling. To be built-out for new tenant shortly.



New Jersey Department of Environmental Protection

INDOOR AIR BUILDING SURVEY
& SAMPLING FORM

Survey Completed by: Scott Mikaelian / ENSR Date: May 31, 2005

Site Name: Former Ingersoll Rand Case #: NJD002395382/99685/2000050/2004306

Part I - Occupants

Building Address: Building 13; 942 Memorial Parkway, Warren County, Phillipsburg, NJ

Property Contact: Dave Zimmerman/Preferred Real Estate Inc. (PREI) Owner Renter/other: _____

Contact's Phone: home () _____ work (908) 387-1909 cell (610) 637-0654

Building occupants: Children under age 13 0 Children age 13-18 0 Adults (workers) 0

Part II - Building Characteristics

Building type: single-family residential / multi-family residential / office / strip mall / commercial / industrial

Describe building: Single story Vacant - former industrial

Number of floors - below grade: 0 (full basement / crawl space / slab) at or above grade: 1

Basement size: N/A ft² Basement floor: concrete / dirt / floating / other (specify): N/A

Foundation type: poured concrete / cinder blocks / stone / other (specify) _____

Type of ground cover around outside of building: grass / concrete / asphalt / other (specify) _____

Basement sump present? Yes / No Sump pump? Yes / No

Type of heating system (circle all that apply): NONE

hot air circulation hot air radiation wood steam radiation hot water radiation
kerosene heater electric baseboard heat pump other (specify): _____

Type of ventilation system (circle all that apply): NONE

central air conditioning mechanical fans bathroom ventilation fans
individual air conditioning units kitchen range hood fan other (specify): _____

Type of fuel utilized (circle all that apply): NONE

Natural gas / electric / fuel oil / wood / coal / solar / kerosene / outside (fresh) air intake

Septic system? Yes / Yes (but not used) / No Irrigation/private well? Yes / Yes (but not used) / No

Existing subsurface depressurization (radon) system in place? Yes / No and running? Yes / No N/A

Part III - Outside Contaminant Sources

NJDEP Comprehensive Site List (1000-ft. radius): Property is Former Ingersoll Rand Facility

Other stationary sources nearby (gas stations, emission stacks, etc.): _____

Heavy vehicular traffic nearby (or other mobile sources): Periodic truck/bus/auto traffic throughout facility

Part IV – Indoor Contaminant Sources

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor & room), and whether the item was removed from the building 48 hours prior to indoor air sampling event.

Potential Sources	Location(s)	Removed Prior to Sampling? (Yes / No / NA)
Gasoline storage cans		
Gas-powered equipment		
Kerosene storage cans		
Paints / thinners / strippers		
Cleaning solvents		
Oven cleaners		
Carpet / upholstery cleaners		
Other house cleaning products		
Moth balls		
Polishes / waxes		
Insecticides		
Furniture / floor polish		
Nail polish / polish remover		
Hairspray		
Cologne / perfume		
Air fresheners		
Fuel tank (inside building)		NA
Wood stove or fireplace		NA
New furniture / upholstery		
New carpeting / flooring		NA
Recent painting in building?		NA
Hobbies - glues, paints, etc.		

Part V – Miscellaneous Items

Do any occupants of the building smoke? NOT INSIDE BUILDING Yes / No How often? _____

Has anyone smoked within the building within the last 48 hours? Yes / No

Does the building have an attached garage? Yes / No

If so, is a car usually parked in the garage? Yes / No

Do the occupants of the building have their clothes dry-cleaned? VACANT Yes / No

When were dry-cleaned clothes last brought into the building? _____

Have the occupants ever noticed any unusual odors in the building? Yes / No

Describe (with location): _____

Any known spills of a chemical immediately outside or inside the building? Yes / No

Describe (with location): See SI/RI/RAW dated June 2005

Have any pesticides/herbicides been applied around the building foundation or in the yard/gardens? Yes / No

If so, when and which chemicals? _____

Part VI – Sampling InformationSample Technician: Scott Mikaelian Phone number: (732) 981 - 0200 X3051Sampler Type: Tedlar / Sorbent / Canister Analytical Method: TO-15 / TO-17 / other: _____Laboratory: ENSR Air Toxics Laboratory NJ Certified Lab? Yes / No

Sample #	Floor	Room	Canister / Tube #	Regulator ID #	Sample Start Date / Time	Sample End Date / Time
IAQ-1-13	1	Main area	C108	A001	6/4/05 11:	6/5/05 10:51

Sample location(s):

Provide Drawing of Sample Location(s) in BuildingSample # IAQ - 1-13

See Figure X

Sample # _____ - _____

Sample # _____ - _____

Did the occupants **not** follow any of the “Instructions
for Residents” directions? Yes / No

If so, describe modifications:

Part VII - Weather ConditionsOutside temperature at time of sampling: 60-90 °FExpected high temperature: 90 °FExpected low temperature: 60 °FWas there significant precipitation within 12 hours of (or during) the sampling event? Yes / NoDescribe the general weather conditions: Rained night of June 3; weather was hot and humid during sampling**Part VIII – General Observations**

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process.

Building was former industrial shop. Currently vacant.



INDOOR AIR BUILDING SURVEY & SAMPLING FORM

Survey Completed by: Scott Mikaelian / ENSR Date: May 31, 2005

Site Name: Former Ingersoll Rand Case #: NJD002395382/99685/2000050/2004306

Part I - Occupants

Building Address: Building 24; 942 Memorial Parkway, Warren County, Phillipsburg, NJ

Property Contact: Dave Zimmerman/Preferred Real Estate Inc. (PREI) Owner Renter/other: _____

Contact's Phone: home () _____ work (908) 387-1909 cell (610) 637-0654

Building occupants: Children under age 13 0 Children age 13-18 0 Adults (workers) 4

Part II - Building Characteristics

Building type: single-family residential / multi-family residential / office / strip mall / commercial / industrial

Describe building: Single story industrial, with approx. 500,000 gal. sump for pump test water beneath building

Number of floors - below grade: 1 (full basement / crawl space / slab) at or above grade: 1

Basement size: N/A ft² Basement floor: concrete / dirt / floating / other (specify): N/A

Foundation type: poured concrete / cinder blocks / stone / other (specify) _____

Type of ground cover around outside of building: grass / concrete / asphalt / other (specify) some gravel

Basement sump present? Yes / No Sump pump? Yes / No SEE ABOVE- LARGE VOLUME TEST WATER PIT

Type of heating system (circle all that apply):

hot air circulation hot air radiation wood steam radiation hot water radiation
kerosene heater electric baseboard heat pump other (specify): _____

Type of ventilation system (circle all that apply):

central air conditioning mechanical fans bathroom ventilation fans
individual air conditioning units kitchen range hood fan other (specify): _____

Type of fuel utilized (circle all that apply):

Natural gas / electric / fuel oil / wood / coal / solar / kerosene / outside (fresh) air intake

Septic system? Yes / Yes (but not used) / No Irrigation/private well? Yes / Yes (but not used) / No

Existing subsurface depressurization (radon) system in place? Yes / No and running? Yes / No N/A

Part III - Outside Contaminant Sources

NJDEP Comprehensive Site List (1000-ft. radius): Property is Former Ingersoll Rand Facility

Other stationary sources nearby (gas stations, emission stacks, etc.): _____

Heavy vehicular traffic nearby (or other mobile sources): Periodic truck/bus/auto traffic throughout facility

Part IV – Indoor Contaminant Sources

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor & room), and whether the item was removed from the building 48 hours prior to indoor air sampling event.

Potential Sources	Location(s)	Removed Prior to Sampling? (Yes / No / NA)
Gasoline storage cans	Center of shop	No
Gas-powered equipment	Center of shop (vacuum sweeper, backhoe, tank truck)	No
Kerosene storage cans		
Paints / thinners / strippers	Throughout (one can degreaser with TCE noted)	No
Cleaning solvents	Throughout	No
Oven cleaners		
Carpet / upholstery cleaners		
Other house cleaning products		
Moth balls		
Polishes / waxes		
Insecticides		
Furniture / floor polish		
Nail polish / polish remover		
Hairspray		
Cologne / perfume		
Air fresheners		
Fuel tank (inside building)		NA
Wood stove or fireplace		NA
New furniture / upholstery		
New carpeting / flooring		NA
Recent painting in building?		NA
Hobbies - glues, paints, etc.	Throughout	No

Part V – Miscellaneous Items

Do any occupants of the building smoke? NOT INSIDE BUILDING Yes / No How often? _____

Has anyone smoked within the building within the last 48 hours? Yes / No

Does the building have an attached garage? Yes / No

If so, is a car usually parked in the garage? Yes / No

Do the occupants of the building have their clothes dry-cleaned? UNLIKELY Yes / No

When were dry-cleaned clothes last brought into the building? UNKNOWN

Have the occupants ever noticed any unusual odors in the building? Yes / No

Describe (with location): _____

Any known spills of a chemical immediately outside or inside the building? Yes / No

Describe (with location): See SI/RI/RAW dated June 2005

Have any pesticides/herbicides been applied around the building foundation or in the yard/gardens? Yes / No

If so, when and which chemicals? _____

Part VI – Sampling InformationSample Technician: Scott Mikaelian Phone number: (732) 981 - 0200 X3051Sampler Type: Tedlar / Sorbent / Canister Analytical Method: TO-15 / TO-17 / other: _____Laboratory: ENSR Air Toxics Laboratory NJ Certified Lab? Yes / No

Sample #	Floor	Room	Canister / Tube #	Regulator ID #	Sample Start Date / Time	Sample End Date / Time
IAQ-5-24	1	Main shop	4449	A002	6/4/05 11:	6/5/05 11:09

Sample location(s):

Provide Drawing of Sample Location(s) in BuildingSample # IAQ - 5-24

See Figure X

Sample # _____ - _____

Sample # _____ - _____

Did the occupants **not** follow any of the “Instructions for Residents” directions? Yes / NoIf so, describe modifications: Active facility, although business was not operating during weekend. Various chemicals, solvents, etc. utilized.**Part VII - Weather Conditions**Outside temperature at time of sampling: 60-90 °FExpected high temperature: 90 °FExpected low temperature: 60 °FWas there significant precipitation within 12 hours of (or during) the sampling event? Yes / NoDescribe the general weather conditions: Rained night of June 3; weather was hot and humid during sampling**Part VIII – General Observations**

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process.

ATTACHMENT 4

NJDEP Instructions for Occupants – Indoor Sampling Events


















Instructions for Occupants

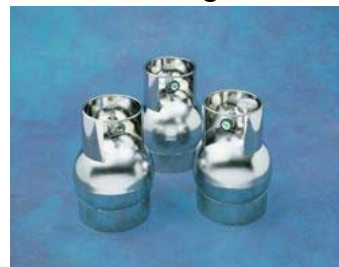
- Indoor Air Sampling Events

Representatives of the New Jersey Department of Environmental Protection (NJDEP) or an environmental consulting firm will be collecting one or more indoor air samples from your building in the near future. In order to collect an indoor air sample in your structure that is both representative of indoor conditions and avoids the common sources of background air contamination associated with household activities and consumer products, the NJDEP requests your assistance.

Please follow the instructions below starting at least 48 hours prior to and during the indoor air-sampling event:

-  Operate your furnace and whole-house air conditioner as appropriate for the current weather conditions
-  Do not use wood stoves, fireplaces or auxiliary heating equipment
-  Do not open windows or keep doors open.
-  Avoid using window air conditioners, fans or vents
-  Do not smoke in the building
-  Do not use air fresheners or odor eliminators
-  Do not use paints or varnishes (up to a week in advance, if possible)
-  Do not use cleaning products (e.g., bathroom cleaners, furniture polish, appliance cleaners, all-purpose cleaners, floor cleaners)
-  Do not use cosmetics, including hair spray, nail polish remover, perfume, etc.
-  Avoid bringing freshly dry-cleaned clothes into the building
-  Do not partake in hobbies indoor that use solvents
-  Do not apply pesticides
-  Do not store containers of gasoline, oil or petroleum-based or other solvents within the building or attached garages (except for fuel oil tanks)
-  Do not operate or store automobiles in an attached garage
-  Do not operate gasoline-powered equipment within the building, attached garage or around the immediate perimeter of the building

You will be asked a series of questions about the structure, consumer products you store in your building, and household activities typically occurring in the building. These questions are designed to identify “background” sources of indoor air contamination. While this investigation is looking for a select number of chemicals related to the subsurface contamination, the laboratory will be analyzing the indoor air samples for a wide variety of chemicals. Thus, tetrachloroethylene used in dry cleaning or acetone found in nail polish remover might be found in your sample results.



Typical air sampling canister

Your cooperation is greatly appreciated. If you have any questions about these instructions, please feel free to contact the NJDEP at

ATTACHMENT 5

Laboratory Analytical Data Package— June 4 and 5, 2005



Air Toxics Specialty Laboratory
325 Ayer Road
Harvard, MA 01451
(978) 772-2345
Fax: (978) 772-4956



ENSR Air Toxics Specialty Laboratory Analytical Report

Client: Scott Mikaelian
ENSR International
20 New England Avenue
Piscataway, NJ 08854-4101

Client ID: 03710-167

Laboratory ID: 05-158

Date(s) Received: 6/7/05

All work contained in this report has been done in accordance with laboratory standard operating procedures. ENSR's Air Toxics Specialty Laboratory follows methodologies based upon standard EPA/NIOSH/OSHA Methods. Data contained herein should be considered accurate and complete to the best of our knowledge. This report cannot be duplicated in part without the written permission of ENSR.

Christopher Philbrick
Senior Chemist
ENSR Air Toxics Specialty Laboratory

Date



Over 30 Years of Excellence in Environmental Services



Case Narrative

Re.: Volatile Organic Analysis of SUMMA® Canister samples by Gas Chromatography/Mass Spectrometry (GC/MS) – **Ingersoll Rand - Phillipsburg**

Project #: **03710-167**

LAB ID #: **05-158**

ANALYTICAL PROCEDURE:

Six (6) SUMMA® canister samples were analyzed for volatile organic compounds under the guidelines of EPA TO-15, Determination of Volatile Organic Compounds (VOCs) In Air Collected In Specially-Prepared Canisters And Analyzed by Gas Chromatography Mass Spectrometry (GC/MS).

A Hewlett Packard 6890 gas chromatograph equipped with a Hewlett Packard 5973 mass selective detector (MSD) was employed for the analysis. A Nutech 3550A/3600 automatic concentrator was utilized for pre-concentration.

A 500-mL aliquot was drawn from each sample, concentrated at -160°C and then transferred to the GC/MSD for the analysis. The operating conditions of the GC/MSD are listed in Table 1.

GC/MSD calibration was performed with canister standards prepared for each target compound. Five to six-point calibrations were generated for each compound using these standards.

No problems occurred during sample receipt or login with the exception that one regulator (A043), for sample 05-158-03 [IAQ-73-7], was received with a % RPD greater than the laboratory acceptance criteria of 20%. The pressure of the canister was ok and permission to analyze the sample was granted from Scott Mikaelian via email dated 6/10/05.

QUALITY CONTROL:

1. A laboratory blank was analyzed daily prior to sample analysis in the same manner as the samples. Target compounds were not detected in the blank.
2. A laboratory check standard (LCS) was analyzed with the batch of samples. All percent recoveries were within the laboratory's QC acceptance limits.
3. Due to laboratory instrumentation issues a duplicate sample analysis was unable to be performed. Therefore, no precision and accuracy determination can be made.
4. The SUMMA® canisters for all samples were cleaned on 5/20/05 and were certified clean by the analysis of one canister (C125) from the cleaning batch.
5. The flow controllers for the samples were cleaned on 5/9/05 and 5/24/05 and were certified clean by the analysis of one flow controller (A002, A010) from each cleaning batch.



TABLE 1

GC/MSD Operating Conditions

Instrument	Hewlett Packard 6890 GC/ 5973 MSD
Injector Temperature	220°C
Column	Rtx-1 60 m Capillary
Parameters	0.25mm ID, 1.0µm df
Carrier gas	UHP Helium; Flow rate = 2.0 cc/min
Detector	Mass Selective detector; Temperature: 240°C
Temperature program	Initial Temp.: 10°C Hold: 6.0 min
	Ramping Rate: 8.0°C/min
	Final Temp: 170°C Time 5.0 min
Data System	HP ChemStation

TABLE 2

SUMMARY OF MAJOR METHOD MODIFICATIONS USED

TO-15 Method Requirement	ENSR SOP (ATSOP036) Requirement	Analytes Flagged
Initial calibration: All %RSDs must be <30%, with no more than two up to 40%	All %RSDs must be <30%, otherwise use linear or quadratic regression with R ² of ≥0.990	dichlorodifluoromethane
Continuing/daily calibration: All %Ds must be less than 30%	All %Ds must be less than 30%, with no more than 4 compounds at 30-50%	N/A
Initial Calibration check (LCS): All percent recoveries must be 70-130%	Percent recoveries must be 70-130% for all compounds except vinyl chloride, 1,3-butadiene, chloromethane, bromomethane, and chloroethane which have recovery limits of 50 and 150%. In addition, the LCS may have up to 4 compounds on the list with recoveries between 130-150%.	N/A
Internal standard areas and retention times must be within 40% and 20 seconds:	Internal standard areas and retention times must be within 50% and 30 seconds	N/A
Replicate precision: Must be within 25%	Replicates must be within 30%	N/A

Date Analysis Started: 06/10/05

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**ENSR AIR TOXICS SPECIALTY LABORATORY
SUMMARY OF ANALYTICAL RESULTS**

Client: <u>Ingersoll Rand - Phillipsburg</u>	Lab Sample ID: <u>05-158-1</u>	Client Sample ID: IAQ-1-13
Laboratory ID: <u>05-158</u>	Data File ID: <u>061005_05.D</u>	Date Sampled: <u>6/5/05</u>
Date Received: <u>6/7/05</u>	Dilution Factor: <u>1.0</u>	Date & Time Analyzed: <u>10 Jun 2005 1:31 pm</u>

Compound	CAS #	ppbV	ug/m ³
propylene	115-7-1	0.50 U	0.86 U
dichlorodifluoromethane	75-71-8	0.50 U	2.5 U
chloromethane	74-87-3	0.50 U	1.0 U
Freon-114	76-14-2	0.50 U	3.5 U
vinyl chloride	75-01-4	0.50 U	1.3 U
1,3-butadiene	106-99-0	0.50 U	1.1 U
bromomethane	74-83-9	0.50 U	1.9 U
chloroethane	75-00-3	0.50 U	1.3 U
vinyl bromide	593-60-2	0.50 U	2.2 U
acetone	67-64-1	3.9	9.2
trichlorofluoromethane	75-69-4	0.97	5.4
isopropanol	67-63-0	0.50 U	1.2 U
1,1-dichloroethene	75-35-4	0.50 U	2.0 U
methylene chloride	75-09-2	1.0 U	3.5 U
3-chloropropene	107-05-1	0.50 U	1.6 U
carbon disulfide	75-15-0	0.57	1.8
Freon-113	76-13-1	0.50 U	3.8 U
trans-1,2-dichloroethene	156-60-5	0.50 U	2.0 U
1,1-dichloroethane	75-34-3	0.50 U	2.0 U
MTBE	1634-04-4	0.50 U	1.8 U
vinyl acetate	108-05-4	0.50 U	1.8 U
2-butanone (MEK)	78-93-3	0.84	2.5
cis-1,2-dichloroethene	156-59-2	0.50 U	2.0 U
n-hexane	110-54-3	0.50 U	1.8 U
chloroform	67-66-3	0.50 U	2.4 U
ethyl acetate	141-78-6	0.50 U	1.8 U
tetrahydrofuran	109-99-9	0.50 U	1.5 U
1,2-dichloroethane	107-06-2	0.50 U	2.0 U
1,1,1-trichloroethane	71-55-6	0.50 U	2.7 U
benzene	71-43-2	0.50 U	1.6 U
carbon tetrachloride	56-23-5	0.50 U	3.1 U
cyclohexane	110-82-7	0.50 U	1.7 U
1,2-dichloropropane	78-87-5	0.50 U	2.3 U
bromodichloromethane	75-27-4	0.50 U	3.4 U
2,2,4-trimethylpentane	540-84-1	0.50 U	2.3 U
1,4-dioxane	123-91-1	0.50 U	1.8 U
n-heptane	142-82-5	0.50 U	2.0 U
trichloroethene	79-01-6	0.50 U	2.7 U
cis-1,3-dichloropropene	10061-01-5	0.50 U	2.3 U
MIBK	108-10-1	0.50 U	2.0 U
trans-1,3-dichloropropene	10061-02-6	0.50 U	2.3 U
1,1,2-trichloroethane	79-00-5	0.50 U	2.7 U
toluene	108-88-3	0.70	2.6
2-hexanone	591-78-6	0.50 U	2.0 U
dibromochloromethane	124-48-1	0.50 U	4.3 U
1,2-dibromoethane	106-93-4	0.50 U	3.8 U
tetrachloroethene	127-18-4	0.86	5.8

U = undetected at specified reporting limit
B = analyte found in blank

E = value exceeded upper range of calibration
D = value obtained from diluted analysis

**ENSR AIR TOXICS SPECIALTY LABORATORY
SUMMARY OF ANALYTICAL RESULTS**

Client: <u>Ingersoll Rand - Phillipsburg</u>	Lab Sample ID: <u>05-158-1</u>	Client Sample ID: IAQ-1-13
Laboratory ID: <u>05-158</u>	Data File ID: <u>061005_05.D</u>	Date Sampled: <u>6/5/05</u>
Date Received: <u>6/7/05</u>	Dilution Factor: <u>1.0</u>	Date & Time Analyzed: <u>10 Jun 2005 1:31 pm</u>

Compound	CAS #	ppbV	ug/m ³
chlorobenzene	108-90-7	0.50 U	2.3 U
ethylbenzene	100-41-4	0.50	2.2
p & m-xylene	106-42-3 & 108-38-3	1.3	5.8
bromoform	75-25-2	0.50 U	5.2 U
styrene	100-42-5	0.50 U	2.1 U
1,1,2,2-tetrachloroethane	79-34-5	0.50 U	3.4 U
o-xylene	95-47-6	0.50	2.2
4-ethyl toluene	622-96-8	0.50 U	2.5 U
1,3,5-trimethylbenzene	108-67-8	0.50 U	2.5 U
1,2,4-trimethylbenzene	95-63-6	0.50 U	2.5 U
benzyl chloride	100-44-7	0.50 U	2.6 U
1,3-dichlorobenzene	541-73-1	0.50 U	3.0 U
1,4-dichlorobenzene	106-46-7	0.50 U	3.0 U
1,2-dichlorobenzene	95-50-1	0.50 U	3.0 U
1,2,4-trichlorobenzene	120-82-1	0.50 U	3.7 U
hexachlorobutadiene	87-68-3	0.50 U	5.3 U

U = undetected at specified reporting limit
B = analyte found in blank

E = value exceeded upper range of calibration
D = value obtained from diluted analysis

**ENSR AIR TOXICS SPECIALTY LABORATORY
SUMMARY OF ANALYTICAL RESULTS**

Client: <u>Ingersoll Rand - Phillipsburg</u>	Lab Sample ID: <u>05-158-2</u>	Client Sample ID: IAQ-2-8
Laboratory ID: <u>05-158</u>	Data File ID: <u>061005_06.D</u>	Date Sampled: <u>6/5/05</u>
Date Received: <u>6/7/05</u>	Dilution Factor: <u>1.0</u>	Date & Time Analyzed: <u>10 Jun 2005 2:28 pm</u>

Compound	CAS #	ppbV	ug/m ³
propylene	115-7-1	0.50 U	0.86 U
dichlorodifluoromethane	75-71-8	0.50 U	2.5 U
chloromethane	74-87-3	0.50 U	1.0 U
Freon-114	76-14-2	0.50 U	3.5 U
vinyl chloride	75-01-4	0.50 U	1.3 U
1,3-butadiene	106-99-0	0.50 U	1.1 U
bromomethane	74-83-9	0.50 U	1.9 U
chloroethane	75-00-3	0.50 U	1.3 U
vinyl bromide	593-60-2	0.50 U	2.2 U
acetone	67-64-1	6.6	16
trichlorofluoromethane	75-69-4	1.5	8.5
isopropanol	67-63-0	0.50 U	1.2 U
1,1-dichloroethene	75-35-4	0.50 U	2.0 U
methylene chloride	75-09-2	1.0 U	3.5 U
3-chloropropene	107-05-1	0.50 U	1.6 U
carbon disulfide	75-15-0	0.50 U	1.6 U
Freon-113	76-13-1	0.50 U	3.8 U
trans-1,2-dichloroethene	156-60-5	0.50 U	2.0 U
1,1-dichloroethane	75-34-3	0.50 U	2.0 U
MTBE	1634-04-4	0.64	2.3
vinyl acetate	108-05-4	0.50 U	1.8 U
2-butanone (MEK)	78-93-3	0.80	2.4
cis-1,2-dichloroethene	156-59-2	0.50 U	2.0 U
n-hexane	110-54-3	0.50 U	1.8 U
chloroform	67-66-3	0.50 U	2.4 U
ethyl acetate	141-78-6	0.50 U	1.8 U
tetrahydrofuran	109-99-9	0.50 U	1.5 U
1,2-dichloroethane	107-06-2	0.50 U	2.0 U
1,1,1-trichloroethane	71-55-6	0.50 U	2.7 U
benzene	71-43-2	0.50 U	1.6 U
carbon tetrachloride	56-23-5	0.50 U	3.1 U
cyclohexane	110-82-7	0.50 U	1.7 U
1,2-dichloropropane	78-87-5	0.50 U	2.3 U
bromodichloromethane	75-27-4	0.50 U	3.4 U
2,2,4-trimethylpentane	540-84-1	0.50 U	2.3 U
1,4-dioxane	123-91-1	0.50 U	1.8 U
n-heptane	142-82-5	0.54	2.2
trichloroethene	79-01-6	0.50 U	2.7 U
cis-1,3-dichloropropene	10061-01-5	0.50 U	2.3 U
MIBK	108-10-1	0.55	2.3
trans-1,3-dichloropropene	10061-02-6	0.50 U	2.3 U
1,1,2-trichloroethane	79-00-5	0.50 U	2.7 U
toluene	108-88-3	3.6	13
2-hexanone	591-78-6	1.6	6.5
dibromochloromethane	124-48-1	0.50 U	4.3 U
1,2-dibromoethane	106-93-4	0.50 U	3.8 U
tetrachloroethene	127-18-4	0.68	4.6

U = undetected at specified reporting limit
B = analyte found in blank

E = value exceeded upper range of calibration
D = value obtained from diluted analysis

**ENSR AIR TOXICS SPECIALTY LABORATORY
SUMMARY OF ANALYTICAL RESULTS**

Client: <u>Ingersoll Rand - Phillipsburg</u>	Lab Sample ID: <u>05-158-2</u>	Client Sample ID: IAQ-2-8
Laboratory ID: <u>05-158</u>	Data File ID: <u>061005_06.D</u>	Date Sampled: <u>6/5/05</u>
Date Received: <u>6/7/05</u>	Dilution Factor: <u>1.0</u>	Date & Time Analyzed: <u>10 Jun 2005 2:28 pm</u>

Compound	CAS #	ppbV	ug/m ³
chlorobenzene	108-90-7	0.50 U	2.3 U
ethylbenzene	100-41-4	0.92	4.0
p & m-xylene	106-42-3 & 108-38-3	2.8	12
bromoform	75-25-2	0.50 U	5.2 U
styrene	100-42-5	0.96	4.1
1,1,2,2-tetrachloroethane	79-34-5	0.50 U	3.4 U
o-xylene	95-47-6	0.89	3.9
4-ethyl toluene	622-96-8	0.50 U	2.5 U
1,3,5-trimethylbenzene	108-67-8	0.50 U	2.5 U
1,2,4-trimethylbenzene	95-63-6	0.50 U	2.5 U
benzyl chloride	100-44-7	0.50 U	2.6 U
1,3-dichlorobenzene	541-73-1	0.50 U	3.0 U
1,4-dichlorobenzene	106-46-7	0.50 U	3.0 U
1,2-dichlorobenzene	95-50-1	0.50 U	3.0 U
1,2,4-trichlorobenzene	120-82-1	0.50 U	3.7 U
hexachlorobutadiene	87-68-3	0.50 U	5.3 U

**ENSR AIR TOXICS SPECIALTY LABORATORY
SUMMARY OF ANALYTICAL RESULTS**

Client: <u>Ingersoll Rand - Phillipsburg</u>	Lab Sample ID: <u>05-158-3</u>	Client Sample ID: IAQ-3-7
Laboratory ID: <u>05-158</u>	Data File ID: <u>061005_07.D</u>	Date Sampled: <u>6/5/05</u>
Date Received: <u>6/7/05</u>	Dilution Factor: <u>1.0</u>	Date & Time Analyzed: <u>10 Jun 2005 3:26 pm</u>

Compound	CAS #	ppbV	ug/m ³
propylene	115-7-1	0.50 U	0.86 U
dichlorodifluoromethane	75-71-8	0.50 U	2.5 U
chloromethane	74-87-3	0.50 U	1.0 U
Freon-114	76-14-2	0.50 U	3.5 U
vinyl chloride	75-01-4	0.50 U	1.3 U
1,3-butadiene	106-99-0	0.50 U	1.1 U
bromomethane	74-83-9	0.50 U	1.9 U
chloroethane	75-00-3	0.50 U	1.3 U
vinyl bromide	593-60-2	0.50 U	2.2 U
acetone	67-64-1	9.3	22
trichlorofluoromethane	75-69-4	3.2	18
isopropanol	67-63-0	1.1	2.6
1,1-dichloroethene	75-35-4	0.50 U	2.0 U
methylene chloride	75-09-2	1.0 U	3.5 U
3-chloropropene	107-05-1	0.50 U	1.6 U
carbon disulfide	75-15-0	0.50 U	1.6 U
Freon-113	76-13-1	0.50 U	3.8 U
trans-1,2-dichloroethene	156-60-5	0.50 U	2.0 U
1,1-dichloroethane	75-34-3	0.50 U	2.0 U
MTBE	1634-04-4	1.4	4.9
vinyl acetate	108-05-4	0.50 U	1.8 U
2-butanone (MEK)	78-93-3	1.1	3.3
cis-1,2-dichloroethene	156-59-2	0.57	2.3
n-hexane	110-54-3	0.63	2.2
chloroform	67-66-3	0.50 U	2.4 U
ethyl acetate	141-78-6	0.50 U	1.8 U
tetrahydrofuran	109-99-9	0.50 U	1.5 U
1,2-dichloroethane	107-06-2	0.50 U	2.0 U
1,1,1-trichloroethane	71-55-6	0.50 U	2.7 U
benzene	71-43-2	0.63	2.0
carbon tetrachloride	56-23-5	0.50 U	3.1 U
cyclohexane	110-82-7	0.50 U	1.7 U
1,2-dichloropropane	78-87-5	0.50 U	2.3 U
bromodichloromethane	75-27-4	0.50 U	3.4 U
2,2,4-trimethylpentane	540-84-1	0.50 U	2.3 U
1,4-dioxane	123-91-1	0.50 U	1.8 U
n-heptane	142-82-5	1.0	4.2
trichloroethene	79-01-6	0.68	3.7
cis-1,3-dichloropropene	10061-01-5	0.50 U	2.3 U
MIBK	108-10-1	0.50 U	2.0 U
trans-1,3-dichloropropene	10061-02-6	0.50 U	2.3 U
1,1,2-trichloroethane	79-00-5	0.50 U	2.7 U
toluene	108-88-3	5.0	19
2-hexanone	591-78-6	0.50 U	2.0 U
dibromochloromethane	124-48-1	0.50 U	4.3 U
1,2-dibromoethane	106-93-4	0.50 U	3.8 U
tetrachloroethene	127-18-4	1.6	11

U = undetected at specified reporting limit
B = analyte found in blank

E = value exceeded upper range of calibration
D = value obtained from diluted analysis

**ENSR AIR TOXICS SPECIALTY LABORATORY
SUMMARY OF ANALYTICAL RESULTS**

Client: <u>Ingersoll Rand - Phillipsburg</u>	Lab Sample ID: <u>05-158-3</u>	Client Sample ID: IAQ-3-7
Laboratory ID: <u>05-158</u>	Data File ID: <u>061005_07.D</u>	Date Sampled: <u>6/5/05</u>
Date Received: <u>6/7/05</u>	Dilution Factor: <u>1.0</u>	Date & Time Analyzed: <u>10 Jun 2005 3:26 pm</u>

Compound	CAS #	ppbV	ug/m ³
chlorobenzene	108-90-7	0.50 U	2.3 U
ethylbenzene	100-41-4	0.85	3.7
p & m-xylene	106-42-3 & 108-38-3	3.0	13
bromoform	75-25-2	0.50 U	5.2 U
styrene	100-42-5	1.4	6.0
1,1,2,2-tetrachloroethane	79-34-5	0.50 U	3.4 U
o-xylene	95-47-6	0.90	3.9
4-ethyl toluene	622-96-8	0.50 U	2.5 U
1,3,5-trimethylbenzene	108-67-8	0.50 U	2.5 U
1,2,4-trimethylbenzene	95-63-6	0.52	2.6
benzyl chloride	100-44-7	0.50 U	2.6 U
1,3-dichlorobenzene	541-73-1	0.50 U	3.0 U
1,4-dichlorobenzene	106-46-7	0.50 U	3.0 U
1,2-dichlorobenzene	95-50-1	0.50 U	3.0 U
1,2,4-trichlorobenzene	120-82-1	0.50 U	3.7 U
hexachlorobutadiene	87-68-3	0.50 U	5.3 U

**ENSR AIR TOXICS SPECIALTY LABORATORY
SUMMARY OF ANALYTICAL RESULTS**

Client: <u>Ingersoll Rand - Phillipsburg</u>	Lab Sample ID: <u>05-158-4</u>	Client Sample ID: IAQ-4-9
Laboratory ID: <u>05-158</u>	Data File ID: <u>061005_08.D</u>	Date Sampled: <u>6/5/05</u>
Date Received: <u>6/7/05</u>	Dilution Factor: <u>1.0</u>	Date & Time Analyzed: <u>10 Jun 2005 4:24 pm</u>

Compound	CAS #	ppbV	ug/m ³
propylene	115-7-1	0.50 U	0.86 U
dichlorodifluoromethane	75-71-8	0.50 U	2.5 U
chloromethane	74-87-3	0.50 U	1.0 U
Freon-114	76-14-2	0.50 U	3.5 U
vinyl chloride	75-01-4	0.50 U	1.3 U
1,3-butadiene	106-99-0	0.50 U	1.1 U
bromomethane	74-83-9	0.50 U	1.9 U
chloroethane	75-00-3	0.50 U	1.3 U
vinyl bromide	593-60-2	0.50 U	2.2 U
acetone	67-64-1	6.6	16
trichlorofluoromethane	75-69-4	4.5	25
isopropanol	67-63-0	1.0	2.5
1,1-dichloroethene	75-35-4	0.50 U	2.0 U
methylene chloride	75-09-2	1.0 U	3.5 U
3-chloropropene	107-05-1	0.50 U	1.6 U
carbon disulfide	75-15-0	0.50 U	1.6 U
Freon-113	76-13-1	0.50 U	3.8 U
trans-1,2-dichloroethene	156-60-5	0.50 U	2.0 U
1,1-dichloroethane	75-34-3	0.50 U	2.0 U
MTBE	1634-04-4	2.8	10
vinyl acetate	108-05-4	0.50 U	1.8 U
2-butanone (MEK)	78-93-3	0.50 U	1.5 U
cis-1,2-dichloroethene	156-59-2	0.50 U	2.0 U
n-hexane	110-54-3	0.50 U	1.8 U
chloroform	67-66-3	0.50 U	2.4 U
ethyl acetate	141-78-6	0.50 U	1.8 U
tetrahydrofuran	109-99-9	0.50 U	1.5 U
1,2-dichloroethane	107-06-2	0.50 U	2.0 U
1,1,1-trichloroethane	71-55-6	0.50 U	2.7 U
benzene	71-43-2	0.50 U	1.6 U
carbon tetrachloride	56-23-5	0.50 U	3.1 U
cyclohexane	110-82-7	0.50 U	1.7 U
1,2-dichloropropane	78-87-5	0.50 U	2.3 U
bromodichloromethane	75-27-4	0.50 U	3.4 U
2,2,4-trimethylpentane	540-84-1	0.50 U	2.3 U
1,4-dioxane	123-91-1	0.50 U	1.8 U
n-heptane	142-82-5	0.81	3.3
trichloroethene	79-01-6	0.50 U	2.7 U
cis-1,3-dichloropropene	10061-01-5	0.50 U	2.3 U
MIBK	108-10-1	0.50 U	2.0 U
trans-1,3-dichloropropene	10061-02-6	0.50 U	2.3 U
1,1,2-trichloroethane	79-00-5	0.50 U	2.7 U
toluene	108-88-3	4.0	15
2-hexanone	591-78-6	0.50 U	2.0 U
dibromochloromethane	124-48-1	0.50 U	4.3 U
1,2-dibromoethane	106-93-4	0.50 U	3.8 U
tetrachloroethene	127-18-4	0.50 U	3.4 U

U = undetected at specified reporting limit
B = analyte found in blank

E = value exceeded upper range of calibration
D = value obtained from diluted analysis

**ENSR AIR TOXICS SPECIALTY LABORATORY
SUMMARY OF ANALYTICAL RESULTS**

Client: <u>Ingersoll Rand - Phillipsburg</u>	Lab Sample ID: <u>05-158-4</u>	Client Sample ID: IAQ-4-9
Laboratory ID: <u>05-158</u>	Data File ID: <u>061005_08.D</u>	Date Sampled: <u>6/5/05</u>
Date Received: <u>6/7/05</u>	Dilution Factor: <u>1.0</u>	Date & Time Analyzed: <u>10 Jun 2005 4:24 pm</u>

Compound	CAS #	ppbV	ug/m ³
chlorobenzene	108-90-7	0.50 U	2.3 U
ethylbenzene	100-41-4	1.4	5.9
p & m-xylene	106-42-3 & 108-38-3	4.7	20
bromoform	75-25-2	0.50 U	5.2 U
styrene	100-42-5	0.50 U	2.1 U
1,1,2,2-tetrachloroethane	79-34-5	0.50 U	3.4 U
o-xylene	95-47-6	1.1	4.7
4-ethyl toluene	622-96-8	0.50 U	2.5 U
1,3,5-trimethylbenzene	108-67-8	0.50 U	2.5 U
1,2,4-trimethylbenzene	95-63-6	0.50 U	2.5 U
benzyl chloride	100-44-7	0.50 U	2.6 U
1,3-dichlorobenzene	541-73-1	0.50 U	3.0 U
1,4-dichlorobenzene	106-46-7	0.50 U	3.0 U
1,2-dichlorobenzene	95-50-1	0.50 U	3.0 U
1,2,4-trichlorobenzene	120-82-1	0.50 U	3.7 U
hexachlorobutadiene	87-68-3	0.50 U	5.3 U

ENSR AIR TOXICS SPECIALTY LABORATORY
SUMMARY OF ANALYTICAL RESULTS

Client: <u>Ingersoll Rand - Phillipsburg</u>	Lab Sample ID: <u>05-158-5</u>	Client Sample ID: IAQ-5-24
Laboratory ID: <u>05-158</u>	Data File ID: <u>061005_09.D</u>	Date Sampled: <u>6/5/05</u>
Date Received: <u>6/7/05</u>	Dilution Factor: <u>1.0</u>	Date & Time Analyzed: <u>10 Jun 2005 5:26 pm</u>

Compound	CAS #	ppbV	ug/m ³
propylene	115-7-1	0.50 U	0.86 U
dichlorodifluoromethane	75-71-8	0.50 U	2.5 U
chloromethane	74-87-3	0.50 U	1.0 U
Freon-114	76-14-2	0.50 U	3.5 U
vinyl chloride	75-01-4	0.50 U	1.3 U
1,3-butadiene	106-99-0	0.50 U	1.1 U
bromomethane	74-83-9	0.50 U	1.9 U
chloroethane	75-00-3	0.50 U	1.3 U
vinyl bromide	593-60-2	0.50 U	2.2 U
acetone	67-64-1	3.3	7.8
trichlorofluoromethane	75-69-4	0.80	4.5
isopropanol	67-63-0	0.50 U	1.2 U
1,1-dichloroethene	75-35-4	0.50 U	2.0 U
methylene chloride	75-09-2	1.0 U	3.5 U
3-chloropropene	107-05-1	0.50 U	1.6 U
carbon disulfide	75-15-0	0.50 U	1.6 U
Freon-113	76-13-1	0.50 U	3.8 U
trans-1,2-dichloroethene	156-60-5	0.50 U	2.0 U
1,1-dichloroethane	75-34-3	0.50 U	2.0 U
MTBE	1634-04-4	4.2	15
vinyl acetate	108-05-4	0.50 U	1.8 U
2-butanone (MEK)	78-93-3	0.50 U	1.5 U
cis-1,2-dichloroethene	156-59-2	0.50 U	2.0 U
n-hexane	110-54-3	0.72	2.5
chloroform	67-66-3	0.50 U	2.4 U
ethyl acetate	141-78-6	0.50 U	1.8 U
tetrahydrofuran	109-99-9	0.50 U	1.5 U
1,2-dichloroethane	107-06-2	0.50 U	2.0 U
1,1,1-trichloroethane	71-55-6	0.50 U	2.7 U
benzene	71-43-2	0.50 U	1.6 U
carbon tetrachloride	56-23-5	0.50 U	3.1 U
cyclohexane	110-82-7	0.50 U	1.7 U
1,2-dichloropropane	78-87-5	0.50 U	2.3 U
bromodichloromethane	75-27-4	0.50 U	3.4 U
2,2,4-trimethylpentane	540-84-1	0.50 U	2.3 U
1,4-dioxane	123-91-1	0.50 U	1.8 U
n-heptane	142-82-5	0.50 U	2.0 U
trichloroethene	79-01-6	0.50 U	2.7 U
cis-1,3-dichloropropene	10061-01-5	0.50 U	2.3 U
MIBK	108-10-1	0.50 U	2.0 U
trans-1,3-dichloropropene	10061-02-6	0.50 U	2.3 U
1,1,2-trichloroethane	79-00-5	0.50 U	2.7 U
toluene	108-88-3	7.7	29
2-hexanone	591-78-6	0.50 U	2.0 U
dibromochloromethane	124-48-1	0.50 U	4.3 U
1,2-dibromoethane	106-93-4	0.50 U	3.8 U
tetrachloroethene	127-18-4	0.50 U	3.4 U

U = undetected at specified reporting limit
B = analyte found in blank

E = value exceeded upper range of calibration
D = value obtained from diluted analysis

**ENSR AIR TOXICS SPECIALTY LABORATORY
SUMMARY OF ANALYTICAL RESULTS**

Client: <u>Ingersoll Rand - Phillipsburg</u>	Lab Sample ID: <u>05-158-5</u>	Client Sample ID: IAQ-5-24
Laboratory ID: <u>05-158</u>	Data File ID: <u>061005_09.D</u>	Date Sampled: <u>6/5/05</u>
Date Received: <u>6/7/05</u>	Dilution Factor: <u>1.0</u>	Date & Time Analyzed: <u>10 Jun 2005 5:26 pm</u>

Compound	CAS #	ppbV	ug/m ³
chlorobenzene	108-90-7	0.50 U	2.3 U
ethylbenzene	100-41-4	0.50 U	2.2 U
p & m-xylene	106-42-3 & 108-38-3	1.6	6.9
bromoform	75-25-2	0.50 U	5.2 U
styrene	100-42-5	0.50 U	2.1 U
1,1,2,2-tetrachloroethane	79-34-5	0.50 U	3.4 U
o-xylene	95-47-6	0.56	2.4
4-ethyl toluene	622-96-8	0.50 U	2.5 U
1,3,5-trimethylbenzene	108-67-8	0.50 U	2.5 U
1,2,4-trimethylbenzene	95-63-6	0.50 U	2.5 U
benzyl chloride	100-44-7	0.50 U	2.6 U
1,3-dichlorobenzene	541-73-1	0.50 U	3.0 U
1,4-dichlorobenzene	106-46-7	0.50 U	3.0 U
1,2-dichlorobenzene	95-50-1	0.50 U	3.0 U
1,2,4-trichlorobenzene	120-82-1	0.50 U	3.7 U
hexachlorobutadiene	87-68-3	0.50 U	5.3 U

**ENSR AIR TOXICS SPECIALTY LABORATORY
SUMMARY OF ANALYTICAL RESULTS**

Client: Ingersoll Rand - Phillipsburg

Lab Sample ID: 05-158-6

Client Sample ID: **IAQ-6-BG**

Laboratory ID: 05-158

Data File ID: 061005_10.D

Date Sampled: 6/5/05

Date Received: 6/7/05

Dilution Factor: 1.0

Date & Time Analyzed: 10 Jun 2005 6:52 pm

Compound	CAS #	ppbV	ug/m ³
propylene	115-7-1	0.50 U	0.86 U
dichlorodifluoromethane	75-71-8	0.50 U	2.5 U
chloromethane	74-87-3	0.50 U	1.0 U
Freon-114	76-14-2	0.50 U	3.5 U
vinyl chloride	75-01-4	0.50 U	1.3 U
1,3-butadiene	106-99-0	0.50 U	1.1 U
bromomethane	74-83-9	0.50 U	1.9 U
chloroethane	75-00-3	0.50 U	1.3 U
vinyl bromide	593-60-2	0.50 U	2.2 U
acetone	67-64-1	1.3	3.2
trichlorofluoromethane	75-69-4	0.50 U	2.8 U
isopropanol	67-63-0	0.50 U	1.2 U
1,1-dichloroethene	75-35-4	0.50 U	2.0 U
methylene chloride	75-09-2	1.0 U	3.5 U
3-chloropropene	107-05-1	0.50 U	1.6 U
carbon disulfide	75-15-0	0.50 U	1.6 U
Freon-113	76-13-1	0.50 U	3.8 U
trans-1,2-dichloroethene	156-60-5	0.50 U	2.0 U
1,1-dichloroethane	75-34-3	0.50 U	2.0 U
MTBE	1634-04-4	0.50 U	1.8 U
vinyl acetate	108-05-4	0.50 U	1.8 U
2-butanone (MEK)	78-93-3	0.50 U	1.5 U
cis-1,2-dichloroethene	156-59-2	0.50 U	2.0 U
n-hexane	110-54-3	0.50 U	1.8 U
chloroform	67-66-3	0.50 U	2.4 U
ethyl acetate	141-78-6	0.50 U	1.8 U
tetrahydrofuran	109-99-9	0.50 U	1.5 U
1,2-dichloroethane	107-06-2	0.50 U	2.0 U
1,1,1-trichloroethane	71-55-6	0.50 U	2.7 U
benzene	71-43-2	0.50 U	1.6 U
carbon tetrachloride	56-23-5	0.50 U	3.1 U
cyclohexane	110-82-7	0.50 U	1.7 U
1,2-dichloropropane	78-87-5	0.50 U	2.3 U
bromodichloromethane	75-27-4	0.50 U	3.4 U
2,2,4-trimethylpentane	540-84-1	0.50 U	2.3 U
1,4-dioxane	123-91-1	0.50 U	1.8 U
n-heptane	142-82-5	0.50 U	2.0 U
trichloroethene	79-01-6	0.50 U	2.7 U
cis-1,3-dichloropropene	10061-01-5	0.50 U	2.3 U
MIBK	108-10-1	0.50 U	2.0 U
trans-1,3-dichloropropene	10061-02-6	0.50 U	2.3 U
1,1,2-trichloroethane	79-00-5	0.50 U	2.7 U
toluene	108-88-3	0.50 U	1.9 U
2-hexanone	591-78-6	0.50 U	2.0 U
dibromochloromethane	124-48-1	0.50 U	4.3 U
1,2-dibromoethane	106-93-4	0.50 U	3.8 U
tetrachloroethene	127-18-4	0.50 U	3.4 U

U = undetected at specified reporting limit

B = analyte found in blank

E = value exceeded upper range of calibration

D = value obtained from diluted analysis

**ENSR AIR TOXICS SPECIALTY LABORATORY
SUMMARY OF ANALYTICAL RESULTS**

Client: <u>Ingersoll Rand - Phillipsburg</u>	Lab Sample ID: <u>05-158-6</u>	Client Sample ID: IAQ-6-BG
Laboratory ID: <u>05-158</u>	Data File ID: <u>061005_10.D</u>	Date Sampled: <u>6/5/05</u>
Date Received: <u>6/7/05</u>	Dilution Factor: <u>1.0</u>	Date & Time Analyzed: <u>10 Jun 2005 6:52 pm</u>

Compound	CAS #	ppbV	ug/m ³
chlorobenzene	108-90-7	0.50 U	2.3 U
ethylbenzene	100-41-4	0.50 U	2.2 U
p & m-xylene	106-42-3 & 108-38-3	1.0 U	4.3 U
bromoform	75-25-2	0.50 U	5.2 U
styrene	100-42-5	0.50 U	2.1 U
1,1,2,2-tetrachloroethane	79-34-5	0.50 U	3.4 U
o-xylene	95-47-6	0.50 U	2.2 U
4-ethyl toluene	622-96-8	0.50 U	2.5 U
1,3,5-trimethylbenzene	108-67-8	0.50 U	2.5 U
1,2,4-trimethylbenzene	95-63-6	0.50 U	2.5 U
benzyl chloride	100-44-7	0.50 U	2.6 U
1,3-dichlorobenzene	541-73-1	0.50 U	3.0 U
1,4-dichlorobenzene	106-46-7	0.50 U	3.0 U
1,2-dichlorobenzene	95-50-1	0.50 U	3.0 U
1,2,4-trichlorobenzene	120-82-1	0.50 U	3.7 U
hexachlorobutadiene	87-68-3	0.50 U	5.3 U

U = undetected at specified reporting limit
B = analyte found in blank

E = value exceeded upper range of calibration
D = value obtained from diluted analysis

**ENSR AIR TOXICS SPECIALTY LABORATORY
QUALITY CONTROL RESULTS-METHOD BLANK**

Client: Ingersoll Rand - Phillipsburg Lab Sample ID: TO15BLK Client Sample ID: N/A
 Laboratory ID: 05-158 Data File ID: 061005_04.D Date Sampled: N/A
 Date Received: N/A Dilution Factor: 1.0 Date & Time Analyzed: 10 Jun 2005 12:29 pm

Compound	CAS #	ppbV	ug/m ³
propylene	115-7-1	0.50 U	0.86 U
dichlorodifluoromethane	75-71-8	0.50 U	2.5 U
chloromethane	74-87-3	0.50 U	1.0 U
Freon-114	76-14-2	0.50 U	3.5 U
vinyl chloride	75-01-4	0.50 U	1.3 U
1,3-butadiene	106-99-0	0.50 U	1.1 U
bromomethane	74-83-9	0.50 U	1.9 U
chloroethane	75-00-3	0.50 U	1.3 U
vinyl bromide	593-60-2	0.50 U	2.2 U
acetone	67-64-1	0.50 U	1.2 U
trichlorofluoromethane	75-69-4	0.50 U	2.8 U
isopropanol	67-63-0	0.50 U	1.2 U
1,1-dichloroethene	75-35-4	0.50 U	2.0 U
methylene chloride	75-09-2	1.0 U	3.5 U
3-chloropropene	107-05-1	0.50 U	1.6 U
carbon disulfide	75-15-0	0.50 U	1.6 U
Freon-113	76-13-1	0.50 U	3.8 U
trans-1,2-dichloroethene	156-60-5	0.50 U	2.0 U
1,1-dichloroethane	75-34-3	0.50 U	2.0 U
MTBE	1634-04-4	0.50 U	1.8 U
vinyl acetate	108-05-4	0.50 U	1.8 U
2-butanone (MEK)	78-93-3	0.50 U	1.5 U
cis-1,2-dichloroethene	156-59-2	0.50 U	2.0 U
n-hexane	110-54-3	0.50 U	1.8 U
chloroform	67-66-3	0.50 U	2.4 U
ethyl acetate	141-78-6	0.50 U	1.8 U
tetrahydrofuran	109-99-9	0.50 U	1.5 U
1,2-dichloroethane	107-06-2	0.50 U	2.0 U
1,1,1-trichloroethane	71-55-6	0.50 U	2.7 U
benzene	71-43-2	0.50 U	1.6 U
carbon tetrachloride	56-23-5	0.50 U	3.1 U
cyclohexane	110-82-7	0.50 U	1.7 U
1,2-dichloropropane	78-87-5	0.50 U	2.3 U
bromodichloromethane	75-27-4	0.50 U	3.4 U
2,2,4-trimethylpentane	540-84-1	0.50 U	2.3 U
1,4-dioxane	123-91-1	0.50 U	1.8 U
n-heptane	142-82-5	0.50 U	2.0 U
trichloroethene	79-01-6	0.50 U	2.7 U
cis-1,3-dichloropropene	10061-01-5	0.50 U	2.3 U
MIBK	108-10-1	0.50 U	2.0 U
trans-1,3-dichloropropene	10061-02-6	0.50 U	2.3 U
1,1,2-trichloroethane	79-00-5	0.50 U	2.7 U
toluene	108-88-3	0.50 U	1.9 U
2-hexanone	591-78-6	0.50 U	2.0 U
dibromochloromethane	124-48-1	0.50 U	4.3 U
1,2-dibromoethane	106-93-4	0.50 U	3.8 U
tetrachloroethene	127-18-4	0.50 U	3.4 U

U= undetected at specified reporting limit
 B= analyte found in blank

E= value exceeded upper range of calibration
 D= value obtained from diluted analysis

**ENSR AIR TOXICS SPECIALTY LABORATORY
QUALITY CONTROL RESULTS-METHOD BLANK**

Client: Ingersoll Rand - Phillipsburg Lab Sample ID: TO15BLK Client Sample ID: N/A

Laboratory ID: 05-158 Data File ID: 061005_04.D Date Sampled: N/A

Date Received: N/A Dilution Factor: 1.0 Date & Time Analyzed: 10 Jun 2005 12:29 pm

Compound	CAS #	ppbV	ug/m ³
chlorobenzene	108-90-7	0.50 U	2.3 U
ethylbenzene	100-41-4	0.50 U	2.2 U
p & m-xylene	106-42-3 & 108-38-3	1.0 U	4.3 U
bromoform	75-25-2	0.50 U	5.2 U
styrene	100-42-5	0.50 U	2.1 U
1,1,2,2-tetrachloroethane	79-34-5	0.50 U	3.4 U
o-xylene	95-47-6	0.50 U	2.2 U
4-ethyl toluene	622-96-8	0.50 U	2.5 U
1,3,5-trimethylbenzene	108-67-8	0.50 U	2.5 U
1,2,4-trimethylbenzene	95-63-6	0.50 U	2.5 U
benzyl chloride	100-44-7	0.50 U	2.6 U
1,3-dichlorobenzene	541-73-1	0.50 U	3.0 U
1,4-dichlorobenzene	106-46-7	0.50 U	3.0 U
1,2-dichlorobenzene	95-50-1	0.50 U	3.0 U
1,2,4-trichlorobenzene	120-82-1	0.50 U	3.7 U
hexachlorobutadiene	87-68-3	0.50 U	5.3 U

ENSR AIR TOXICS SPECIALTY LABORATORY
QUALITY CONTROL RESULTS-LABORATORY CONTROL SPIKE

Client: Ingersoll Rand - Phillipsburg Lab Sample ID: 5 ppbV TO15 LCS Client Sample ID: N/A

Laboratory ID: 05-158 Data File ID: 061005_02.D Date Sampled: N/A

Date Received: N/A Dilution Factor: 1.0 Date & Time Analyzed: 10 Jun 2005 10:35 am

Compound	ppbV	ug/m ³	True Value ppbV	% Recovery
dichlorodifluoromethane	3.8	19	5.0	77%
chloromethane	4.8	9.9	5.0	95%
Freon-114	3.9	28	5.0	79%
vinyl chloride	4.6	12	5.0	92%
bromomethane	4.5	17	5.0	89%
chloroethane	4.0	11	5.0	81%
trichlorofluoromethane	4.1	23	5.0	82%
1,1-dichloroethene	4.4	17	5.0	87%
methylene chloride	4.2	15	5.0	85%
Freon-113	4.3	33	5.0	86%
1,1-dichloroethane	4.6	18	5.0	91%
cis-1,2-dichloroethene	4.5	18	5.0	91%
chloroform	4.3	21	5.0	87%
1,2-dichloroethane	4.7	19	5.0	95%
1,1,1-trichloroethane	4.3	24	5.0	86%
benzene	4.3	14	5.0	85%
carbon tetrachloride	4.4	27	5.0	87%
1,2-dichloropropane	4.4	20	5.0	88%
trichloroethene	4.4	23	5.0	87%
cis-1,3-dichloropropene	4.3	20	5.0	86%
trans-1,3-dichloropropene	3.9	18	5.0	77%
1,1,2-trichloroethane	4.4	24	5.0	88%
toluene	5.0	19	5.0	100%
1,2-dibromoethane	5.2	40	5.0	103%
tetrachloroethene	5.1	34	5.0	101%
chlorobenzene	4.3	20	5.0	86%
ethylbenzene	4.4	19	5.0	87%
p & m-xylene	8.6	37	10	86%
styrene	4.1	17	5.0	81%
1,1,2,2-tetrachloroethane	4.7	32	5.0	94%
o-xylene	4.6	20	5.0	92%
1,3,5-trimethylbenzene	4.1	20	5.0	81%
1,2,4-trimethylbenzene	4.2	21	5.0	84%
1,3-dichlorobenzene	4.4	26	5.0	87%
1,4-dichlorobenzene	4.5	27	5.0	89%
1,2-dichlorobenzene	4.4	27	5.0	88%
1,2,4-trichlorobenzene	4.0	29	5.0	79%
hexachlorobutadiene	4.4	46	5.0	87%



CHAIN OF CUSTODY RECORD

Page 1 of 1

Client/Project Name: INGERSOLL RAND - PHILLIPSBURG		Project Location: PHILLIPSBURG, NJ		Analysis Requested										
Project Number: 03710-167		Field Logbook No.:												
Sampler (Print Name)/(Affiliation): SCOTT MIKAELEIAN / ENSR		Chain of Custody Tape No.:												
Signature: <i>[Signature]</i>		Send Results/Report to: Scott Mikaelian / ENSR Picataway, NJ												
Field Sample No./ Identification	Date	Time	Grab	Comp	Sample Container (Can/Bag)	Canister I.D.	Regulator I.D.	Sample Type (Soil gas/ambient)	TO-15				Lab I.D.	Remarks
IAQ-1-13	6/4/05 6/5/05			24hr.	CAN	C108	A001	ambient	X				05-158-1	3-DAY TAT
IAQ-2-8						94	A021		X				2	
IAQ-3-7						C125	A043		X				3	
IAQ-4-9						4465	A011		X				4	
IAQ-5-24						4449	A002		X				5	
IAQ-6-BG						4450	A003		X				6	
Relinquished by: (print name) SCOTT MIKAELEIAN (PACKED IN PEXEX BOX + ZIP-TIE)		Date: 6/5/05		Received by: (print name)		Date:		Analytical Laboratory (Destination): ENSR Air Laboratory 325 Ayer Rd Harvard, MA 01451-1132 Phone: (978) 772-2345 Fax: (978) 772-4956						
Signature: <i>[Signature]</i>		Time: 11:40		Signature: <i>[Signature]</i>		Time:								
Relinquished by: (print name)		Date:		Received by: (print name)		Date:								
Signature:		Time:		Signature:		Time:								
Relinquished by: (print name) SB		Date:		Received for laboratory by: (print name) SHLENN BLAIR		Date: 6/8/05								
Signature:		Time:		Signature: <i>[Signature]</i>		Time: 11:05								

05-158

SAMPLE LOG-IN & RECEIPT CHECKLIST

Client/Proj# INGERSOLL RAND-PHILLIPSBURG HS / 03710-167

Project Mgr: SCOTT MIKAELIAN Lab Pool #: 05-158

Inspected & Logged in by: SHEENA BLAIR Date & Time: 6/8/05 11:05am

Sample Matrix	Number of Samples	Analysis Requested	Hold Time & Due by(date)	Storage Location	Disposal Date*
SUMMA	6	TO-15	HT: 7/4/05 Due: 6/13/05	GC/MS lab	
			HT: Due:		
			HT: Due:		

Circle the appropriate response:

- 1) Shipped / Hand delivered TRK # 6982 5115 2930
- 2) COC present / not present on receipt
- 3) COC Tape present not present on shipping container
- 4) Samples broken / leaking / intact on receipt
- 5) Samples ambient / chilled on receipt
- 6) Samples preserved correctly / incorrectly / none recommended
- 7) Received within / outside holding time
- 8) COC tapes present / not present on samples
- 9) Discrepancies / NO discrepancies noted between COCs and samples

Additional Comments: 3-DAY TAT ON COC
6 regulators returned

*= Note that all Canister samples will be considered disposed of during next cleaning.
 For canister samples, please refer to Canister Log Book for details.

APPENDIX F

Photo Log



Photo No. 1 – Looking West along sidewalk through parking area



Photo No. 2 Looking West along northern edge of parking area



Photo No. 3 – Looking South along eastern border of parking area



Photo No. 4 – Looking Southwest along southern border of parking area